# **Dual NPN Bias Resistor Transistors R1 = 47 k\Omega, R2 = 22 k** $\Omega$

## NPN Transistors with Monolithic Bias Resistor Network

This series of digital transistors is designed to replace a single device and its external resistor bias network. The Bias Resistor Transistor (BRT) contains a single transistor with a monolithic bias network consisting of two resistors; a series base resistor and a base-emitter resistor. The BRT eliminates these individual components by integrating them into a single device. The use of a BRT can reduce both system cost and board space.

#### Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

#### MAXIMUM RATINGS

(T\_A = 25°C, common for  $Q_1$  and  $Q_2,$  unless otherwise noted)

Rating	Symbol	Max	Unit
Collector-Base Voltage	V <sub>CBO</sub>	50	Vdc
Collector-Emitter Voltage	V <sub>CEO</sub>	50	Vdc
Collector Current – Continuous	Ι <sub>C</sub>	100	mAdc
Input Forward Voltage	V <sub>IN(fwd)</sub>	40	Vdc
Input Reverse Voltage	V <sub>IN(rev)</sub>	10	Vdc

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

#### **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
MUN5237DW1T1G, SMUN5237DW1T1G	SOT-363	3,000/Tape & Reel
NSBC144WDXV6T1G	SOT-563	4,000/Tape & Reel
NSBC144WDP6T5G	SOT-963	8,000/Tape & Reel

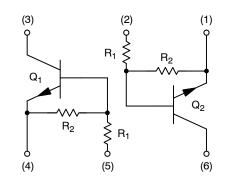
<sup>+</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



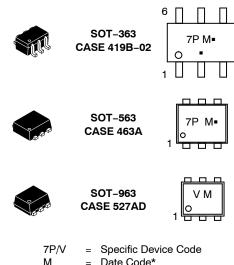
#### **ON Semiconductor®**

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#### **PIN CONNECTIONS**



#### MARKING DIAGRAMS



<sup>=</sup> Date Code\* = Pb-Free Package

(Note: Microdot may be in either location)

\*Date Code orientation may vary depending upon manufacturing location.

Semiconductor Components Industries, LLC, 2012 June, 2017 – Rev. 1

#### THERMAL CHARACTERISTICS

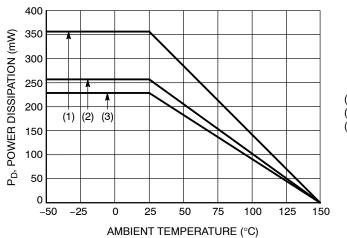
	Characteristic	Symbol	Max	Unit
MUN5237DW1 (SOT-363) ON	E JUNCTION HEATED		<u>.</u>	
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) (Note 2) Derate above 25^{C} (Note 2)	(Note 1)	PD	187 256 1.5 2.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	R <sub>θJA</sub>	670 490	°C/W
MUN5237DW1 (SOT-363) BO	TH JUNCTION HEATED (Note 3)	L		
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) (Note 2) Derate above 25^{C} (Note 2)	(Note 1)	PD	250 385 2.0 3.0	mW mW/°C
Thermal Resistance, Junction to Ambient (Note 2)	(Note 1)	R <sub>θJA</sub>	493 325	°C/W
Thermal Resistance, Junction to Lead (Note 1) (Note 2)		R <sub>θJL</sub>	188 208	°C/W
Junction and Storage Temperation	ature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C
NSBC144WDXV6 (SOT-563)	ONE JUNCTION HEATED		· · · ·	
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) Derate above $25^{\circ}C$	(Note 1)	P <sub>D</sub>	357 2.9	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1)	R <sub>0JA</sub>	350	°C/W
NSBC144WDXV6 (SOT-563)	BOTH JUNCTION HEATED (Note 3)	·		
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 1) Derate above 25^{C}	(Note 1)	P <sub>D</sub>	500 4.0	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1)	R <sub>0JA</sub>	250	°C/W
Junction and Storage Temperation	ature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C
NSBC144WDP6 (SOT-963) O	NE JUNCTION HEATED			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 4) (Note 5) Derate above 25^{C} (Note 5)	(Note 4)	PD	231 269 1.9 2.2	MW mW/°C
Thermal Resistance, Junction to Ambient (Note 5)	(Note 4)	R <sub>θJA</sub>	540 464	°C/W
NSBC144WDP6 (SOT-963) B	OTH JUNCTION HEATED (Note 3)	L		
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 4) (Note 5) Derate above 25^{C} (Note 5)	(Note 4)	PD	339 408 2.7 3.3	MW mW/°C
Thermal Resistance, Junction to Ambient (Note 5)	(Note 4)	R <sub>0JA</sub>	369 306	°C/W
Junction and Storage Temperation	atura Banga	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C

FR-4 @ Minimum Fad.
 FR-4 @ 1.0 × 1.0 Inch Pad.
 Both junction heated values assume total power is sum of two equally powered channels.
 FR-4 @ 100 mm<sup>2</sup>, 1 oz. copper traces, still air.
 FR-4 @ 500 mm<sup>2</sup>, 1 oz. copper traces, still air.

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					
Collector-Base Cutoff Current $(V_{CB} = 50 \text{ V}, I_E = 0)$	I <sub>CBO</sub>	_	-	100	nAdc
Collector-Emitter Cutoff Current $(V_{CE} = 50 \text{ V}, I_B = 0)$	I <sub>CEO</sub>	_	-	500	nAdc
Emitter-Base Cutoff Current $(V_{EB} = 6.0 \text{ V}, I_C = 0)$	I <sub>EBO</sub>	-	-	0.13	mAdc
Collector-Base Breakdown Voltage $(I_C = 10 \ \mu A, I_E = 0)$	V <sub>(BR)CBO</sub>	50	-	-	Vdc
Collector-Emitter Breakdown Voltage (Note 6) $(I_{C} = 2.0 \text{ mA}, I_{B} = 0)$	V <sub>(BR)CEO</sub>	50	-	-	Vdc
ON CHARACTERISTICS					
DC Current Gain (Note 6) $(I_C = 5.0 \text{ mA}, V_{CE} = 10 \text{ V})$	h <sub>FE</sub>	80	140	-	
Collector-Emitter Saturation Voltage (Note 6) $(I_C = 10 \text{ mA}, I_B = 5.0 \text{ mA})$	V <sub>CE(sat)</sub>	-	-	0.25	V
Input Voltage (Off) (V <sub>CE</sub> = 5.0 V, I <sub>C</sub> = 100 μA)	V <sub>i(off)</sub>	-	1.7	-	Vdc
Input Voltage (On) (V <sub>CE</sub> = 0.2 V, I <sub>C</sub> = 3.0 mA)	V <sub>i(on)</sub>	_	2.6	-	Vdc
Output Voltage (On) ( $V_{CC} = 5.0 \text{ V}, \text{ V}_{B} = 4.0 \text{ V}, \text{ R}_{L} = 1.0 \text{ k}\Omega$ )	V <sub>OL</sub>	-	-	0.2	Vdc
Output Voltage (Off) (V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 0.25 V, R <sub>L</sub> = 1.0 k $\Omega$ )	V <sub>OH</sub>	4.9	_	_	Vdc
Input Resistor	R1	32.9	47	61.1	kΩ
Resistor Ratio	R <sub>1</sub> /R <sub>2</sub>	1.7	2.1	2.6	

#### **ELECTRICAL CHARACTERISTICS** ( $T_A = 25^{\circ}C$ , common for $Q_1$ and $Q_2$ , unless otherwise noted)

6. Pulsed Condition: Pulse Width = 300 ms, Duty Cycle  $\leq$  2%.

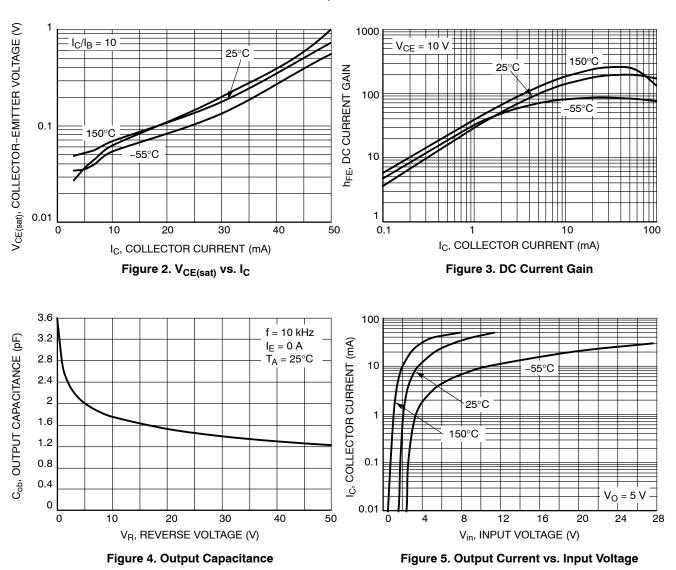


(1) SOT-363; 1.0 × 1.0 Inch Pad

(2) SOT-563; Minimum Pad

(3) SOT-963; 100 mm<sup>2</sup>, 1 oz. Copper Trace

Figure 1. Derating Curve





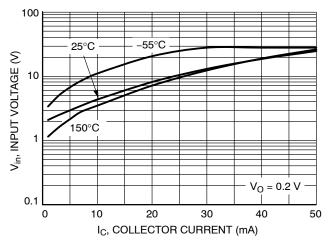
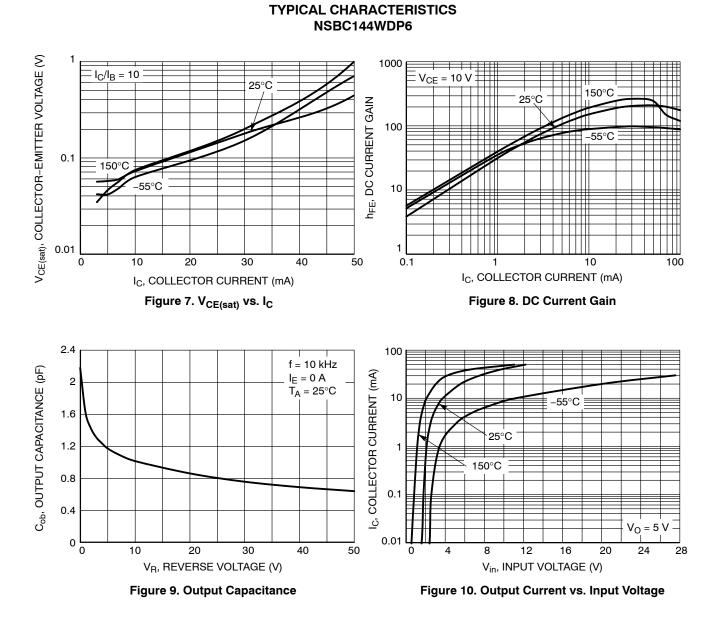
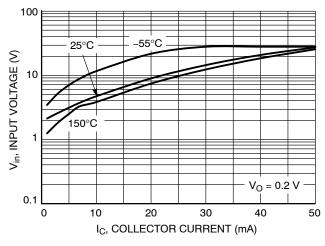


Figure 6. Input Voltage vs. Output Current



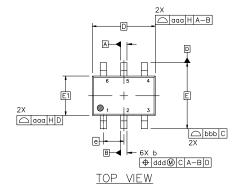




#### SC-88 2.00x1.25x0.90, 0.65P CASE 419B-02 **ISSUE Z**

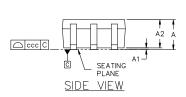
#### DATE 18 APR 2024

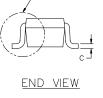
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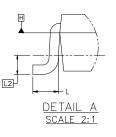
#### NOTES:

- DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.
- 2.
- ALL DIMENSION ARE IN MILLIMETERS. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 3. PER END.
- 4. DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF DATUMS A AND B ARE DETERMINED AT DATUM H.
- 5.
- DIMENSIONS & AND C APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 AND 0.15 FROM THE TIP. 6.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. 7 ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF DIMENSION & AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT.

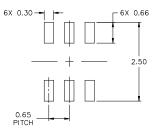




DETAIL A



	MI	LLIMETER	S		
DIM	MIN.	NOM.	MAX.		
A			1.10		
A1	0.00		0.10		
A2	0.70	0.90	1.00		
b	0.15	0.20	0.25		
с	0.08	0.15	0.22		
D	2.00 BSC				
E	2.10 BSC				
E1	1.25 BSC				
е		0.65 BSC	)		
L	0.26	0.36	0.46		
L2		0.15 BSC			
aaa	0.15				
bbb	0.30				
ccc	0.10				
ddd		0.10			



RECOMMENDED MOUNTING FOOTPRINT\*

FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ONSEMI SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

XXX = Specific Device Code = Date Code\* Μ

GENERIC **MARKING DIAGRAM\*** 

XXXM-

0

6

= Pb-Free Package

(Note: Microdot may be in either location)

\*Date Code orientation and/or position may vary depending upon manufacturing location.

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

#### **STYLES ON PAGE 2**

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#### SC-88 2.00x1.25x0.90, 0.65P CASE 419B-02 ISSUE Z

#### DATE 18 APR 2024

STYLE 1: PIN 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 2: CANCELLED	STYLE 3: CANCELLED	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. COLLECTOR 4. EMITTER 5. BASE 6. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 6: PIN 1. ANODE 2 2. N/C 3. CATHODE 1 4. ANODE 1 5. N/C 6. CATHODE 2
STYLE 7: PIN 1. SOURCE 2 2. DRAIN 2 3. GATE 1 4. SOURCE 1 5. DRAIN 1 6. GATE 2	STYLE 8: CANCELLED	STYLE 9: PIN 1. EMITTER 2 2. EMITTER 1 3. COLLECTOR 1 4. BASE 1 5. BASE 2 6. COLLECTOR 2	STYLE 10: PIN 1. SOURCE 2 2. SOURCE 1 3. GATE 1 4. DRAIN 1 5. DRAIN 2 6. GATE 2	STYLE 11: PIN 1. CATHODE 2 2. CATHODE 2 3. ANODE 1 4. CATHODE 1 5. CATHODE 1 6. ANODE 2	STYLE 12: PIN 1. ANODE 2 2. ANODE 2 3. CATHODE 1 4. ANODE 1 5. ANODE 1 6. CATHODE 2
STYLE 13:	STYLE 14:	STYLE 15:	STYLE 16:	STYLE 17:	STYLE 18:
PIN 1. ANODE	PIN 1. VREF	PIN 1. ANODE 1	PIN 1. BASE 1	PIN 1. BASE 1	PIN 1. VIN1
2. N/C	2. GND	2. ANODE 2	2. EMITTER 2	2. EMITTER 1	2. VCC
3. COLLECTOR	3. GND	3. ANODE 3	3. COLLECTOR 2	3. COLLECTOR 2	3. VOUT2
4. EMITTER	4. IOUT	4. CATHODE 3	4. BASE 2	4. BASE 2	4. VIN2
5. BASE	5. VEN	5. CATHODE 2	5. EMITTER 1	5. EMITTER 2	5. GND
6. CATHODE	6. VCC	6. CATHODE 1	6. COLLECTOR 1	6. COLLECTOR 1	6. VOUT1
STYLE 19:	STYLE 20:	STYLE 21:	STYLE 22:	STYLE 23:	STYLE 24:
PIN 1. I OUT	PIN 1. COLLECTOR	PIN 1. ANODE 1	PIN 1. D1 (i)	PIN 1. Vn	PIN 1. CATHODE
2. GND	2. COLLECTOR	2. N/C	2. GND	2. CH1	2. ANODE
3. GND	3. BASE	3. ANODE 2	3. D2 (i)	3. Vp	3. CATHODE
4. V CC	4. EMITTER	4. CATHODE 2	4. D2 (c)	4. N/C	4. CATHODE
5. V EN	5. COLLECTOR	5. N/C	5. VBUS	5. CH2	5. CATHODE
6. V REF	6. COLLECTOR	6. CATHODE 1	6. D1 (c)	6. N/C	6. CATHODE
STYLE 25:	STYLE 26:	STYLE 27:	STYLE 28:	STYLE 29:	STYLE 30:
PIN 1. BASE 1	PIN 1. SOURCE 1	PIN 1. BASE 2	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. SOURCE 1
2. CATHODE	2. GATE 1	2. BASE 1	2. DRAIN	2. ANODE	2. DRAIN 2
3. COLLECTOR 2	3. DRAIN 2	3. COLLECTOR 1	3. GATE	3. COLLECTOR	3. DRAIN 2
4. BASE 2	4. SOURCE 2	4. EMITTER 1	4. SOURCE	4. EMITTER	4. SOURCE 2
5. EMITTER	5. GATE 2	5. EMITTER 2	5. DRAIN	5. BASE/ANODE	5. GATE 1
6. COLLECTOR 1	6. DRAIN 1	6. COLLECTOR 2	6. DRAIN	6. CATHODE	6. DRAIN 1

Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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#### MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



# ONSEMI

DATE 15 FEB 2024         NTES         1.1 ENDESCONG AND TOLERANCING CONFORM TO ASME 1.2 ENDESCONG AND TOLERANCING CONFORMATION TOLERANCING 2. ENDESCONG AND TOLERANCING CONFORMATION TOLERANCING 2. ENDESCONG AND TOLERANCING CONFORMATION TOLERANCING 2. ENDESCONG AND TOLERANCING TOLERANCING TOLERANCING TOLERANCING 2. ENDESCONG AND TOLERANCING TOLERANCING TOLERANCING 2. ENDESCONG AND TOLERANCING TOLERANCING TOLERANCING TOLERANCING TOLERANCING TOLERANCING TOLERANCING 2. ENDESCONG AND TOLERANCING TOLERANCING 2. ENDESCONG AND TOLERANCING TOLERANCING TOLERANCING TOLERANCI				ISSUE J				
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<ul> <li>2. ALL DIMÉNSION ARE. IN MILLIMETERS.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS OF BASE MATERIAL.</li> <li>3. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>4. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>4. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>4. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>5. MAXIMUM LEAD THICKNESS OF BASE MATERIAL.</li> <li>5.</li></ul>						RANCING	CONFORM	M TO ASME
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PIN 1       0 <th></th> <th>B</th> <th></th> <th></th> <th></th> <th>MIN.</th> <th>NDM.</th> <th>MAX.</th>		B				MIN.	NDM.	MAX.
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C       0.08       0.13       0.18         D       D       0.10       1.20       1.30         D       D       0.10       0.20       0.30         PIN 1       EMTTRE 1       STYLE 3       FIVE 4       0.10       0.20       0.30         STYLE 1       PIN 1       EMTTRE 1       STYLE 3       AMDE 4       0.30       0.30       0.30       0.30         J       AMDE 5       SASE 1       SAME 7       SAME 7 <th></th> <th>•</th> <th></th> <th></th> <th>b</th> <th>0.17</th> <th>0.22</th> <th>0.27</th>		•			b	0.17	0.22	0.27
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STYLE 1: TOP_WEW       SIDE_VIEW       Image: Construct of the second se	الک ب				D	1.50	1.60	1.70
Image: Style is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: WEW       SIDE VIEW       Image: Side VIEW         STYLE is top: Side VIEW       SIDE VIEW       Image: Side VIEW         STYLE is top: Side VIEW       SIDE VIEW       Image: Side VIEW         STYLE is top: Side VIEW       SIDE VIEW       Image: Side VIEW         STYLE is top: Side VIEW       SIDE VIEW       Image: Side VIEW         STYLE is top: Side VIEW       Side VIEW       Side VIEW         STYLE 4: STYLE 5: STYLE 5: STYLE 6: SIDE VIEW       STYLE 6: Side VIEW         STYLE 4: SIDE VIEW       SIDE VIEW       Side VIEW         SIDE VIEW       SIDE Cathodic 2: Contribute       Side VIEW         SIDE Cathodic 2: Contribute       Side VIEW       Side VIEW         STYLE 4: STYLE 5: STYLE 6: SIDE VIEW       Side VIEW       Side VIEW         SIDE VIEW       Side VIEW       Side VIEW       Side VIEW         Side Cathodic 2: Contribute       Side VIEW       Side VIEW	L				E	1.10	1.20	1.30
TOP VIEW     SIDE VIEW       TOP VIEW     SIDE VIEW       TOP VIEW     SIDE VIEW       TOP VIEW     SIDE VIEW       STATUSE 1     STYLE 2:       PIN 1 EMITTER 1     PIN 1 EMITTER 1       2 BASE 2     STATUSE 1:       3 BASE 2     S BASE 1:       3 BASE 2     S BASE 1:       4 MUTTER 2     STYLE 5:       5 COLLECTOR 1:     CATHODE 2:       4 COLLECTOR 1:     CATHODE 2:       4 COLLECTOR 1:     CATHODE 2:       3 BASE 2:     S BASE 1:       5 COLLECTOR 1:     CATHODE 2:       4 COLLECTOR 1:     CATHODE 2:       4 COLLECTOR 1:     CATHODE 2:       4 COLLECTOR 2:     CATHODE 2:       5 COLLECTOR 1:     CATHODE 2:       6 COLLECTOR 2:     CATHODE 3:       7 COLLECTOR 2:     CATHODE 3:       8 COLLECTOR 2:     CATHODE 3:       9 COLLECTOR 4:     STYLE 5:       9 COLLECTOR 5:     STYLE 6:       1:     CATHODE 3:       2:     CATHODE 3:       3:     CATHODE 3:       4:     ANDE       4:     CATHODE 3:       5:     COLLECTOR 6:       6:     CATHODE 3:       6:     CATHODE 3:       6:     CATHODE 4:				℃ ─►  ┝━─	e		0.50 BSC	
STYLE 1:       STYLE 2:       STYLE 3:         PIN 1: EMITTER 1       PIN 1: EMITTER 1       PIN 1: CATHODE 1         2: BASE 1       2: CATHODE 1       2: CATHODE 2         3: COLLECTOR 2       4: CATHODE 2       4: CATHODE 2         4: EMITTER 2       4: CATHODE 2       4: CATHODE 2         5: BASE 2       5: BASE 1       5: CATHODE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDE/ANDDE 2         7: STYLE 4:       STYLE 5:       STYLE 6:         9: N 1: CATHODE 2:       CATHODE 2:         2: COLLECTOR 1       6: COLLECTOR 2         3: BASE 2:       3: ANDE         3: COLLECTOR 1       6: COLLECTOR 1         4: EMITTER 3:       STYLE 5:         5: COLLECTOR 1       6: CATHODE 2:         6: COLLECTOR 3:       CATHODE 2:         7: COLLECTOR 3:       CATHODE 4:         8: COLLECTOR 3:       CATHODE 4:         9: N 1: CATHODE 4:       STYLE 9:         9: N 1: CATHODE 4:       STYLE 9:         10: 1       CATHODE 4:         10: 1       CATHODE 5:         2: ANDDE       CATHODE 4:         3: CATHODE 4:       CATHODE 5:         3: CATHODE 5:       CATHODE 5:         3: CATHODE 6:<					н	1.50	1.60	1.70
STYLE i       STYLE 2:       STYLE 3:         PIN 1. EMITTER 1       PIN 1. EMITTER 2       STYLE 3:         3. COLLECTOR 2       3. BASE 2       3. ANDE/ANDE 2         4. EMITTER 2       3. BASE 2       3. ANDE/ANDE 2         5. BASE 2       5. BASE 1       5. CATHODE 2         5. BASE 2       5. BASE 1       5. CATHODE 2         6. COLLECTOR 2       3. BASE 1       5. CATHODE 2         7. COLLECTOR 2       3. BASE 1       5. CATHODE 2         8. STYLE 5:       STYLE 5:       STYLE 6:         PIN 1. CATHODE 2       2. CATHODE 2       2. CATHODE 2         3. COLLECTOR 2       3. ANDDE 3. CATHODE 2       3. CATHODE 2         4. EMITTER 4       STYLE 5:       STYLE 6:         PIN 1. CATHODE 3. CATHODE 4. CATHODE 2       3. CATHODE 3. CATHODE 5. CATHODE 4. CATHODE 4. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. GATE 2       3. DRAIN 2         3. CATHODE 3. CATHODE 3. CATHODE 5. DRAIN 5. GATE 2       3. DRAIN 2       GATE 1         3. ANDDE 4. SDURCE 4. SDURCE 1       3. DRAIN 2       CATHODE 5. DRAIN 5. GATE 2         5. ANDDE 5. DRAIN 5. GATE 2       3. CATHODE 5. DRAIN 5. GATE 2       CATHODE 5. DRAIN 5. GATE 2         6. ANDDE 1       PIN 1. EMITTER 1       DRAIN 1. SDURCE 1         7. NC 2       S DRASE 1					L	0.10	0.20	0.30
STYLE i       STYLE 2:       STYLE 3:         PIN 1. EMITTER 1       PIN 1. EMITTER 2       STYLE 3:         3. COLLECTOR 2       3. BASE 2       3. ANDE/ANDE 2         4. EMITTER 2       3. BASE 2       3. ANDE/ANDE 2         5. BASE 2       5. BASE 1       5. CATHODE 2         5. BASE 2       5. BASE 1       5. CATHODE 2         6. COLLECTOR 2       3. BASE 1       5. CATHODE 2         7. COLLECTOR 2       3. BASE 1       5. CATHODE 2         8. STYLE 5:       STYLE 5:       STYLE 6:         PIN 1. CATHODE 2       2. CATHODE 2       2. CATHODE 2         3. COLLECTOR 2       3. ANDDE 3. CATHODE 2       3. CATHODE 2         4. EMITTER 4       STYLE 5:       STYLE 6:         PIN 1. CATHODE 3. CATHODE 4. CATHODE 2       3. CATHODE 3. CATHODE 5. CATHODE 4. CATHODE 4. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. GATE 2       3. DRAIN 2         3. CATHODE 3. CATHODE 3. CATHODE 5. DRAIN 5. GATE 2       3. DRAIN 2       GATE 1         3. ANDDE 4. SDURCE 4. SDURCE 1       3. DRAIN 2       CATHODE 5. DRAIN 5. GATE 2         5. ANDDE 5. DRAIN 5. GATE 2       3. CATHODE 5. DRAIN 5. GATE 2       CATHODE 5. DRAIN 5. GATE 2         6. ANDDE 1       PIN 1. EMITTER 1       DRAIN 1. SDURCE 1         7. NC 2       S DRASE 1						- 170	- 1	
STYLE 1:       STYLE 2:       STYLE 3:         PIN 1: ENITTER 1       2: EMITTER 1       2: EMITTER 1         2: BASE 1       3: BASE 2       3: ANDE/ANDDE 2         4: EMITTER 2       4: COLLECTOR 2       4: CATHODE 1         3: COLLECTOR 1       6: COLLECTOR 1       6: ANDE/ANDDE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: SASE 2:       5: SASE 1:       5: CATHODE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: CATHODE 2:       CATHODE 2:         2: COLLECTOR 2:       CATHODE 2:         3: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       STYLE 5:         PIN 1: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       CATHODE 2:         5: COLLECTOR 2:       CATHODE 3:         6: COLLECTOR 6:       CATHODE 4:         7: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: CALLECTOR 6:       CATHODE 2:         3: ANDE 6:       SURAIN 2:         4: CATHODE 1:       SURAIN 2:         5: ANDE 2:       SURAIN 2:         6: CATHODE 1:       SURAIN 2:         6: CATHODE 2					0.30			< 0.45
STYLE 1:       STYLE 2:       STYLE 3:         PIN 1: ENITTER 1       2: EMITTER 1       2: EMITTER 1         2: BASE 1       3: BASE 2       3: ANDE/ANDDE 2         4: EMITTER 2       4: COLLECTOR 2       4: CATHODE 1         3: COLLECTOR 1       6: COLLECTOR 1       6: ANDE/ANDDE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: SASE 2:       5: SASE 1:       5: CATHODE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: CATHODE 2:       CATHODE 2:         2: COLLECTOR 2:       CATHODE 2:         3: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       STYLE 5:         PIN 1: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       CATHODE 2:         5: COLLECTOR 2:       CATHODE 3:         6: COLLECTOR 6:       CATHODE 4:         7: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: CALLECTOR 6:       CATHODE 2:         3: ANDE 6:       SURAIN 2:         4: CATHODE 1:       SURAIN 2:         5: ANDE 2:       SURAIN 2:         6: CATHODE 1:       SURAIN 2:         6: CATHODE 2					T T	ti dh i	┼┤──┸	
STYLE 1:       STYLE 2:       STYLE 3:         PIN 1: ENITTER 1       2: EMITTER 1       2: EMITTER 1         2: BASE 1       3: BASE 2       3: ANDE/ANDDE 2         4: EMITTER 2       4: COLLECTOR 2       4: CATHODE 1         3: COLLECTOR 1       6: COLLECTOR 1       6: ANDE/ANDDE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: SASE 2:       5: SASE 1:       5: CATHODE 2         6: COLLECTOR 1       6: COLLECTOR 1       6: ANDDE/ANDDE 1         8: CATHODE 2:       CATHODE 2:         2: COLLECTOR 2:       CATHODE 2:         3: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       STYLE 5:         PIN 1: CATHODE 2:       CATHODE 2:         4: EMITTER 4:       CATHODE 2:         5: COLLECTOR 2:       CATHODE 3:         6: COLLECTOR 6:       CATHODE 4:         7: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: TYLE 7:       STYLE 8:         9: CALLECTOR 6:       CATHODE 2:         3: ANDE 6:       SURAIN 2:         4: CATHODE 1:       SURAIN 2:         5: ANDE 2:       SURAIN 2:         6: CATHODE 1:       SURAIN 2:         6: CATHODE 2						τμτ		
PIN I. EMITTER 1 2. BASE 1 2. CATHODE 1 2. CATHODE 1 2. CATHODE 2 3. COLLECTOR 2 4. CATHOLECTOR 2 5. BASE 2 5. BASE 2 5. BASE 1 6. COLLECTOR 1 6. COLLECTOR 1 6. COLLECTOR 1 7. CALLECTOR 2 5. BASE 2 5. BASE 2 5. BASE 1 6. COLLECTOR 1 6. COLLECTOR 1 7. CALLECTOR 2 7. CALLECTOR 3 7. CALLECTOR 3 7. CALLECTOR 3 7. CALLECTOR 4 7. CALLECTOR 4 7. CALLECTOR 5 7. CALLECTOR 7 7. CALLECTOR 5 7. CALLECTOR 7 7.					1.80		I	
3. CULLECTOR 2       3. BASE 2       3. ANDDE/ANDDE 2         4. EMITTER 2       4. CATHODE 2       4. CATHODE 2         5. BASE 2       5. BASE 1       5. CATHODE 2         6. COLLECTOR 1       6. COLLECTOR 1       6. ANDDE/ANDDE 1         RECOMMENDED MOUNTING FOOTPRINT*         STYLE 4:         PIN 1. CATHODE       2. CATHODE         2. COLLECTOR 2       3. ANDDE         3. BASE 2       3. ANDDE         3. BASE 2       5. CATHODE         2. COLLECTOR 2       2. CATHODE         3. BASE 3       ANDDE         3. BASE 4       4. ANDDE         4. EMITTER 4       STYLE 6:         9. COLLECTOR 5. CATHODE       3. CATHODE 2         3. BASE 4       4. ANDDE 4         4. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 6. CATHODE 6. CATHODE 6. CATHODE 7. COLDERING TECHNIQUES REFERENCE MANUAL, SOLDERING TOR SOLDERING TOR SOLDERING AND MOUNTING TECHNICE REVIEW MANUAL, SOLDERING MANUAL, SOLDERING POLYDALL, SOLDERING MANUAL, SOLDERING MANUAL, SOLDERING MANUAL, SOLDERING MANUAL, SOLDERING DIAGRAM*         YILE 7:       STYLE 8:       STYLE 9:         9. NAIDE 2       3. GATE 2       SOLRCE 2         3. CATHODE 3. CATHODE 4. SDURCE 4. SDURCE 2       SOLARIN 6. DRAIN 1         3. CATHODE 5. DRAIN 6. DRAIN 1       SOLECTOR 1 <td< th=""><th></th><th></th><th></th><th>E 1</th><th></th><th></th><th><u>+</u>-</th><th></th></td<>				E 1			<u>+</u> -	
5. BASE 2       5. BASE 1       5. CATHIDE 2       0.30         6. COLLECTOR 1       6. COLLECTOR 1       6. ANDE/ANDDE 1       RECOMMENDED MOUNTING FOOTPRINT*         STYLE 4:       STYLE 5:       STYLE 6:       PIN 1. CATHIDDE       PIN 1. CATHIDDE         2. COLLECTOR       2. CATHIDDE       2. CATHIDDE       3. BASE       3. ANDDE         3. BASE       3. ANDDE       3. CATHIDDE       3. CATHIDDE       5. CATHIDDE         4. EMITTER       4. ANDDE       4. CATHIDDE       5. CATHIDDE       5. CATHIDDE         5. COLLECTOR       5. CATHIDDE       5. CATHIDDE       5. CATHIDDE       5. CATHIDDE         5. COLLECTOR       6. CATHIDDE       5. CATHIDDE       5. CATHIDDE       5. CATHIDDE         5. COLLECTOR       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         2. ANDDE       2. DRAIN       2. GATE 1       2. MANDA       MARKING DIAGRAM*         STYLE 7:       STYLE 8:       STYLE 9:       MARKING DIAGRAM*       MARKING DIAGRAM*         2. ANDDE       2. DRAIN       3. DRAIN 1       2. GATE 2       MARKING DIAGRAM*         3. CATHIDDE       3. DRAIN       5. DIRCE 1       XX = Specific Device Code       M = Month Code         4. CATHIDDE 1       FIN 1. EMITTER 2						$\frac{1}{1}$		
STYLE 4:       STYLE 5:       STYLE 6:       *       FOR ADDITIONAL INFORMATION ON OUR Pb-FREE         PIN 1. CATHIDDE       PIN 1. CATHIDDE       2. CATHIDDE       2. CATHIDDE       3. CATHIDDE         3. BASE       3. ANDDE       3. CATHIDDE       3. CATHIDDE       4. CATHIDDE       4. CATHIDDE         5. COLLECTOR       5. CATHIDDE       4. CATHIDDE       4. CATHIDDE       5. CATHIDDE       5. CATHIDDE         6. COLLECTOR       6. CATHIDDE       5. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         7. CATHIDDE       8. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         8. ANDDE       9. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         8. ANDDE       2. DRAIN       2. GATE 1       3. DRAIN 2       6. CATHIDDE       6. CATHIDDE         2. ANDDE       3. DRAIN       5. GATE 2       3. CATHIDE       XX = Specific Device Code         M       M = Month Code       •       = D-Free Package         STYLE 10:       STYLE 11:       FTHIS INFORMATION IS generic. Please refer to         9. N/C       2. BASE 2       3. CATHIDDE       9. COLLECTUR 1         4. ANDDE 1       9. ASEE 1       0. CATHIDE       PD-Free indicat						′ / 		
STYLE 4:       STYLE 5:       STYLE 6:       *       FOR ADDITIONAL INFORMATION ON OUR Pb-FREE         PIN 1. CATHIDDE       2. CATHIDDE       2. ANIDDE       3. BASE       3. ANDDE       3. CATHIDDE         3. BASE       3. ANDDE       3. CATHIDDE       3. CATHIDDE       3. CATHIDDE       3. CATHIDDE         4. EMITTER       4. ANDDE       4. CATHIDDE       5. CATHIDDE       5. CATHIDDE       5. CATHIDDE         5. COLLECTOR       6. CATHIDDE       5. CATHIDDE       5. CATHIDDE       6. CATHIDDE       6. CATHIDDE         6. COLLECTOR       6. CATHIDDE       5. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         3. CATHIDDE       3. CATHIDDE       3. CATHIDDE       6. CATHIDDE       6. CATHIDDE       6. CATHIDDE         3. CATHIDDE       3. GATE       3. DRAIN       2. GATE 1       3. DRAIN 2       4. CATHIDDE       4. SDURCE       2. ANDICE         3. CATHIDDE       4. CATHIDDE       5. GATE 2       3. DRAIN 1       XX = Specific Device Code       M = Month Code       -       = Pb-Free Package         STYLE 10'       STYLE 11'       FIN 1. CATHIDE       2. BASE 2       3. CATHIDDE       *This information is generic. Plase refer to device data sheet for actual part marking.         2. N/C       3. CATHIDDE 2       3. CATH	6. COLLECTOR 1	6. COLLECTOR 1	6. ANDDE/	ANDDE 1				
PIN 1. COLLECTOR       PIN 1. CATHODE       PIN 1. CATHODE       2. ANDDE       3. ANDDE       3. CATHODE       3. ANDDE       3. CATHODE       4. CATHODE       4. CATHODE       4. CATHODE       4. CATHODE       4. CATHODE       4. CATHODE       6. CATHODE       6. CATHODE       6. CATHODE       6. CATHODE       4. CATHODE       6. CA					RECOMMENDE	ED MOUN	TING FOO	TPRINT*
2. CULLECTUR 2. CAIHUDE 2. ANUDE 3. CATHODE 4. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 5. CATHODE 6. CATHODE 6. CATHODE 6. CATHODE 6. CATHODE 6. CATHODE 7. CATHODE	PIN 1. COLLECTOR	PIN 1. CATHODE	PIN 1. CATHODE	* F(				
4. EMITTER       4. ANDDE       4. CATHEDE       MANUAL, SOLDERRM/D.         5. COLLECTOR       6. CATHEDE       5. CATHEDE       GENERIC         6. COLLECTOR       6. CATHEDE       6. CATHEDE       MARKING DIAGRAM*         STYLE 7:       STYLE 8:       STYLE 9:       MARKING DIAGRAM*         PIN 1. CATHEDE       2. DRAIN       2. GATE       3. DRAIN 2         3. CATHEDE       3. GATE       3. DRAIN 2       1         4. CATHEDE       4. SDURCE       4. SDURCE 2       1         5. ANDDE       5. DRAIN       5. GATE 2       XX = Specific Device Code         M = Month Code       •       = Pb-Free Package         STYLE 10:       STYLE 11:       XX = Specific Device Code         PIN 1. CATHEDE       1. DEMITTER 2       *This information is generic. Please refer to         2. N/C       2. BASE 2       device data sheet for actual part marking.         3. CATHEDE 1       PIN 1. EMITTER 1       or may not be present. Some products may         3. CATHEDE 2       4. EMITTER 1       or may not be present. Some products may         3. N/C       5. BASE 1       or may not be present. Some products may         4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may         5. N/C       5. BASE 1	3. BASE	3. ANDDE	3. CATHOD	Ł	OWNLOAD THE	ON SEMIC	ONDUCTOR	SOLDERING
GENERIC MARKING DIAGRAM*         STYLE 7:       STYLE 8:       STYLE 9:         PIN 1. CATHODE       PIN 1. DRAIN       PIN 1. SDURCE 1         2. ANDDE       2. DRAIN       2. GATE 1         3. CATHODE       3. GATE       3. DRAIN 2         4. CATHODE       4. SDURCE       4. SDURCE 4. SDURCE 2         5. ANDDE       5. DRAIN       5. GATE 2         6. CATHODE       6. DRAIN       6. DRAIN 1         7       File       * Style 10:         8. STYLE 10:       STYLE 11:       * = Pb-Free Package         STYLE 10:       STYLE 11:         PIN 1. CATHODE 1       PIN 1. EMITTER 2         2. N/C       2. BASE 2         3. CATHODE 2       3. COLLECTOR 1         9. N/C       3. CALLECTOR 1         4. ANDDE 2       4. EMITTER 1         5. N/C       SASE 1         6. ANDDE 1       6. COLLECTOR 2         9. N/C       SASE 1         6. ANDDE 1       6. COLLECTOR 2         9. N/C       SASE 1         6. ANDDE 1       6. COLLECTOR 2         9. N/C       SASE 1         6. ANDDE 1       6. COLLECTOR 2         9. ONTROLECTOR 2       NOT 5. SASE 1         6. A	5. COLLECTOR	5. CATHODE	5. CATHOD	E				
STYLE 7:       STYLE 8:       STYLE 9:         PIN 1. CATHIDDE       PIN 1. DRAIN       PIN 1. SDURCE 1         2. ANDDE       2. DRAIN       2. GATE 1         3. CATHIDDE       3. GATE       3. DRAIN 2         4. CATHIDDE       4. SDURCE       4. SDURCE         5. ANDDE       5. DRAIN       5. GATE 2         6. CATHIDDE       6. DRAIN       6. DRAIN 1         XXX       = Specific Device Code         M       = Month Code         •       = Pb-Free Package         STYLE 10:       STYLE 11:         PIN 1. CATHIDDE 1       PIN 1. EMITTER 2         3. CATHIDDE 2       3. COLLECTOR 1         9. N/C       2. BASE 2         3. CATHIDDE 2       3. COLLECTOR 1         9. N/C       5. BASE 1         6. ANIDDE 1       6. COLLECTOR 2         9. N/C       5. BASE 1         6. ANIDDE 1       6. COLLECTOR 2         DOCUMENT NUMBER:       98AON11126D	6. COLLECTOR	6. CATHODE	6. CATHOD	E		GENER	C	
PIN 1. CATHIDE       PIN 1. DRAIN       PIN 1. SDURCE 1         2. ANDDE       2. DRAIN       2. GATE 1         3. CATHIDDE       3. GATE       3. DRAIN 2         4. CATHIDDE       4. SDURCE       4. SDURCE 2         5. ANDDE       5. DRAIN       5. GATE 2         6. CATHIDDE       6. DRAIN       6. DRAIN         7       6. DRAIN       6. DRAIN         8. CATHIDDE       6. DRAIN       6. DRAIN         9. OLATHIDE       6. DRAIN       6. DRAIN         9. CATHIDDE       6. DRAIN       6. DRAIN         9. CATHIDDE       1. EMITTER 2       XX = Specific Device Code         M       = Month Code       =         9. N/C       2. BASE 2       device data sheet for actual part marking.         3. CATHIDDE 2       3. COLLECTOR 1       Pb-Free indicator, "G" or microdot "•", may         4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may         5. N/C       5. BASE 1       or may not be present. Some products may         6. ANDDE 1       6. COLLECTOR 2       Electronic versions are uncontrolled except when accessed directly from the Document Repository.         Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th>							-	
3. CATHIDE 4. CATHIDE 5. ANDDE 5. ANDDE 6. DRAIN 5. GATE 2 5. ANDDE 6. DRAIN 6. DRAIN 5. GATE 2 5. ANDDE 6. DRAIN 6. DRAIN 7. STYLE 10: 7. N/C 7. SASE 2 7. CATHIDE 7. N/C 7. SASE 2 7. CATHIDE 7. N/C 7. SASE 2 7. CATHIDE 7. N/C 7. SASE 2 7. CATHIDE 7. N/C 7. SASE 1 7. COLLECTOR 7.	PIN 1. CATHODE	PIN 1. DRAIN	PIN 1. SOURCE	1			1	
5. ANDDE       5. DRAIN       5. GATE 2         6. CATHEDDE       6. DRAIN       6. DRAIN 1         XX       = Specific Device Code         M       = Month Code         •       = Pb-Free Package         STYLE 10:       STYLE 11:         PIN 1. CATHEDDE 1       PIN 1. EMITTER 2         2. N/C       2. BASE 2         3. CATHEDDE 2       3. COLLECTER 1         4. ANEDDE 2       4. EMITTER 1         5. N/C       5. BASE 1         6. ANEDE 1       6. COLLECTER 2         Electronic versions are uncontrolled except when accessed directly from the Document Repository.         Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	3. CATHODE	3. GATE	3. DRAIN â			XXM•		
STYLE 10:       STYLE 11: <ul> <li>PD-Free Package</li> <li>*This information is generic. Please refer to</li> <li>ACTHDDE 1</li> <li>PIN 1. EMITTER 2</li> <li>CATHDDE 2</li> <li>CDLLECTOR 1</li> <li>PD-Free indicator, "G" or microdot "=", may</li> <li>or may not be present. Some products may</li> <li>N/C</li> <li>SBASE 1</li> <li>COLLECTOR 2</li> </ul> <li>DOCUMENT NUMBER:</li> <li>98AON11126D</li> <li>Electronic versions are uncontrolled except when accessed directly from the Document Repository.</li> <li>Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.</li>							]	
STYLE 10:       STYLE 11:       - = Pb-Free Package         PIN 1. CATHIDE 1       PIN 1. EMITTER 2       *This information is generic. Please refer to         2. N/C       2. BASE 2       device data sheet for actual part marking.         3. CATHIDE 2       3. COLLECTOR 1       Pb-Free indicator, "G" or microdot "=", may         4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may         5. N/C       5. BASE 1       ort follow the Generic Marking.         6. ANDDE 1       6. COLLECTOR 2       Electronic versions are uncontrolled except when accessed directly from the Document Repository.         Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	6. CATHODE	6. DRAIN	6. DRAIN 1	L		•		
PIN 1. CATHIDE 1       PIN 1. EMITTER 2       *This information is generic. Please refer to device data sheet for actual part marking.         2. N/C       2. BASE 2       device data sheet for actual part marking.         3. CATHIDE 2       3. CDLLECTOR 1       Pb-Free indicator, "G" or microdot "•", may         4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may         5. N/C       5. BASE 1       not follow the Generic Marking.         6. ANDDE 1       6. CDLLECTOR 2       Electronic versions are uncontrolled except when accessed directly from the Document Repository.         Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.       Image: Control of the co								
3. CATHEDE 2       3. CELLECTER 1       Pb-Free indicator, "G" or microdot "•", may         4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may         5. N/C       5. BASE 1       not follow the Generic Marking.         6. ANDDE 1       6. CELLECTER 2       not follow the Generic Marking.         DOCUMENT NUMBER:       98AON11126D       Electronic versions are uncontrolled except when accessed directly from the Document Repository.	PIN 1. CATHODE 1	PIN 1. EMITTER 2				, e		
4. ANDDE 2       4. EMITTER 1       or may not be present. Some products may not follow the Generic Marking.         5. N/C       5. BASE 1       not follow the Generic Marking.         6. ANDDE 1       6. CDLLECTOR 2       Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	3. CATHODE 2	3. COLLECTOR 1						
6. ANDDE 1       6. CDLLECTOR 2       not follow the Generic Marking.         DOCUMENT NUMBER:       98AON11126D       Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.					or may not be p	resent. So	me product	
Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	6. ANDDE 1	6. COLLECTOR 2						he Document Repository.
DESCRIPTION: SOT-563-6 1.60x1.20x0.55, 0.50P PAGE 1 OF 1				Printed versions are un				COPY" in red.
	DESCRIPTI	ON:   SOT-563-6 1	.60x1.20x0.55	, 0.50P				PAGE 1 OF 1

SOT-563-6 1.60x1.20x0.55, 0.50P CASE 463A

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#### MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



SOT-963 1.00x1.00x0.37, CASE 527AD	0.35P				
ISSUE F			DATE	20 FEB 2024	
NDTES:		м	LLIMETE	RS	
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2. CONTROLLING DIMENSION: MILLIMETERS.	2018.   DIM	MIN.	NDM.	MAX.	
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIM		0,34	0.37	0,40	
THICKNESS OF BASE MATERIAL.	h	0.10	0.15	0.20	
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH. PROTRUSIONS, OR GATE BURRS.	с	0.07	0.12	0.17	
	D	0.95	1.00	1.05	
	E	0.75	0.80	0.85	
	e		0.35 BSC	2	
+-+-+ Ė   ⊢ Ĥ	Н	0.95	1.00	1.05	
	L		0.19 REF	-	
T =	L2	0.05	0.10	0.15	
	6X 0.20-	┥   <b></b>	<b>–</b> 6)	K 0.35	
			<b></b> ′		
	,	ı⊟ ∰ Ŀ	⇒	•	
		_ + −	_+ ↑	1.20	
		ффF	Ч		
	INE		0.25		
	_		0.35 PITCH		
L2→ → ← 6X b (\$\$\0,08 A B]	RECOMME	INDED	MOUNT	ING	
	*For addition Free strateg				
STYLE 1: STYLE 2: STYLE 3: PL	ease download	i the 🛛	I Semicor	nductor	
2. BASE 1 2. EMITTER2 2. CATHODE 1 3. COLLECTOR 2 3. BASE 2 3. ANODE/ANODE 2 4. EMITTER 2 4. COLLECTOR 2 4. CATHODE 2	Soldering and Reference				
4. COLLECTOR 2     4. COLLECTOR 2     4. CATHODE 2     5. BASE 2     5. CATHODE 2     6. COLLECTOR 1     6. ANODE/ANODE 1					
STYLE 4: STYLE 5: STYLE 6:					
PIN 1. COLLECTOR         PIN 1. CATHODE         PIN 1. CATHODE           2. COLLECTOR         2. CATHODE         2. ANODE           3. BASE         3. ANODE         3. CATHODE	G	ENERIC			
4. EMITTER4. ANODE4. CATHODE5. COLLECTOR5. CATHODE5. CATHODE		NG DIAGF	RAM*		
6. COLLECTOR 6. CATHODE 6. CATHODE	]				
STYLE 7:         STYLE 8:         STYLE 9:           PIN 1. CATHODE         PIN 1. DRAIN         PIN 1. SOURCE 1           2. ANODE         2. DRAIN         2. GATE 1	1	°XXW			
3. CATHODE         3. GATE         3. DRAIN 2           4. CATHODE         4. SOURCE         4. SOURCE 2	ا XX – ۹۳	с с с ecific Devic	- Code		
5. ANODE5. DRAIN5. GATE 26. CATHODE6. DRAIN6. DRAIN 1		nth Code			
STYLE 10: PIN 1. CATHODE 1 2. N/C 3. CATHODE 2 4. ANODE 2 5. N/C 6. ANODE 1	*This information device data she Pb-Free indicate or may not be pr not follow the Ge	et for actua or, "G" or m esent. Som	l part marki crodot "∎", n e products n	ing. nay	
	re uncontrolled except when a				
DESCRIPTION: SOT-963 1.00x1.00x0.37, 0.35P			PA	GE 1 OF 1	
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