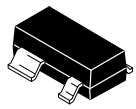
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

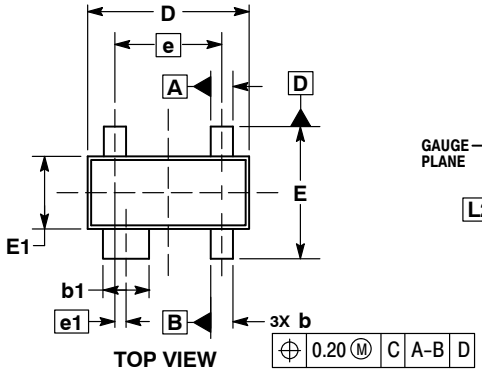
ON Semiconductor®

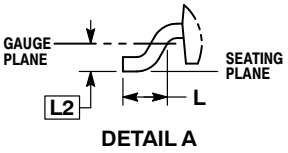
SOT−143
CASE 318A−06
ISSUE U

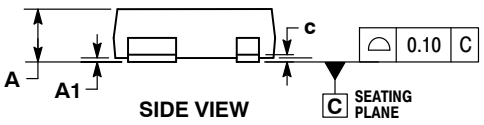
DATE 07 SEP 2011

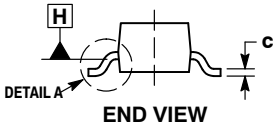


SCALE 4:1





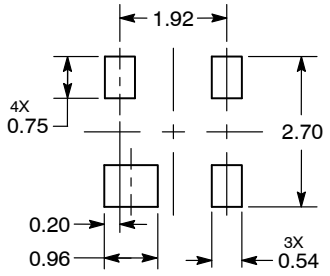




NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, AND GATE BURRS SHALL NOT EXCEED 0.25 PER SIDE. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH AND PROTRUSION SHALL NOT EXCEED 0.25 PER SIDE.
5. DIMENSIONS D AND E1 ARE DETERMINED AT DATUM H.
6. DATUMS A AND B ARE DETERMINED AT DATUM H.

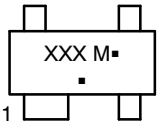
	MILLIMETERS	
DIM	MIN	MAX
A	0.80	1.12
A1	0.01	0.15
b	0.30	0.51
b1	0.76	0.94
c	0.08	0.20
D	2.80	3.05
E	2.10	2.64
E1	1.20	1.40
e	1.92 BSC	
e1	0.20 BSC	
L	0.35	0.70
L2	0.25 BSC	

RECOMMENDED SOLDERING FOOTPRINT



DIMENSIONS: MILLIMETERS

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code
M = Date Code
▪ = Pb−Free Package

(Note: Microdot may be in either 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.

STYLE 1:
PIN 1. COLLECTOR
2. EMITTER
3. EMITTER
4. BASE

STYLE 2:
PIN 1. SOURCE
2. DRAIN
3. GATE 1
4. GATE 2

STYLE 3:
PIN 1. GROUND
2. SOURCE
3. INPUT
4. OUTPUT

STYLE 4:
PIN 1. OUTPUT
2. GROUND
3. GROUND
4. INPUT

STYLE 5:
PIN 1. SOURCE
2. DRAIN
3. GATE 1
4. SOURCE

STYLE 6:
PIN 1. GND
2. RF IN
3. VREG
4. RF OUT

STYLE 7:
PIN 1. SOURCE
2. GATE
3. DRAIN
4. SOURCE

STYLE 8:
PIN 1. SOURCE
2. GATE
3. DRAIN
4. N/C

STYLE 9:
PIN 1. GND
2. IOUT
3. VCC
4. VREF

STYLE 10:
PIN 1. DRAIN
2. N/C
3. SOURCE
4. GATE

STYLE 11:
PIN 1. SOURCE
2. GATE 1
3. GATE 2
4. DRAIN

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STATUS:	ON SEMICONDUCTOR STANDARD	
NEW STANDARD:		
DESCRIPTION:	SOT−143	PAGE 1 OF 2

ISSUE	REVISION	DATE
U	REDREW TO JEDEC STANDARDS. ADDED SOLDER FOOTPRINT. REQ. BY D. TRUHITTE.	07 SEP 2011