

# MECHANICAL CASE OUTLINE

## PACKAGE DIMENSIONS

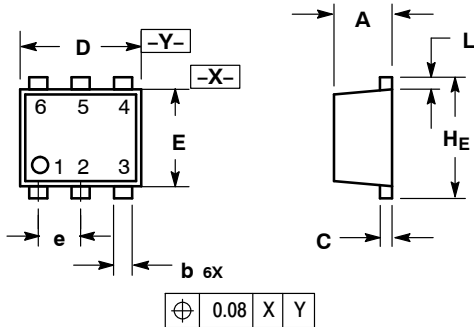
ON Semiconductor®



**SOT-963**  
CASE 527AA-01  
ISSUE D

DATE 30 JUL 2008

  
SCALE 4:1



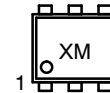
**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.40	0.45	0.50	0.016	0.018	0.020
b	0.10	0.15	0.20	0.004	0.006	0.008
C	0.05	0.10	0.15	0.002	0.004	0.006
D	0.95	1.00	1.05	0.037	0.039	0.041
E	0.75	0.80	0.85	0.03	0.032	0.034
e	0.35 BSC			0.014 BSC		
L	0.05	0.10	0.15	0.002	0.004	0.006
H <sub>E</sub>	0.95	1.00	1.05	0.037	0.039	0.041

- |  |   |  |
|--|---|--|
| <p><b>STYLE 1:</b><br/>PIN 1. EMITTER 1<br/>2. BASE 1<br/>3. COLLECTOR 2<br/>4. EMITTER 2<br/>5. BASE 2<br/>6. COLLECTOR 1</p> | <p><b>STYLE 2:</b><br/>PIN 1. EMITTER 1<br/>2. EMITTER2<br/>3. BASE 2<br/>4. COLLECTOR 2<br/>5. BASE 1<br/>6. COLLECTOR 1</p> | <p><b>STYLE 3:</b><br/>PIN 1. CATHODE 1<br/>2. CATHODE 1<br/>3. ANODE/ANODE 2<br/>4. CATHODE 2<br/>5. CATHODE 2<br/>6. ANODE/ANODE 1</p> |
| <p><b>STYLE 4:</b><br/>PIN 1. COLLECTOR<br/>2. COLLECTOR<br/>3. BASE<br/>4. EMITTER<br/>5. COLLECTOR<br/>6. COLLECTOR</p>      | <p><b>STYLE 5:</b><br/>PIN 1. CATHODE<br/>2. CATHODE<br/>3. ANODE<br/>4. ANODE<br/>5. CATHODE<br/>6. CATHODE</p>              | <p><b>STYLE 6:</b><br/>PIN 1. CATHODE<br/>2. ANODE<br/>3. CATHODE<br/>4. CATHODE<br/>5. CATHODE<br/>6. CATHODE</p>                       |
| <p><b>STYLE 7:</b><br/>PIN 1. CATHODE<br/>2. ANODE<br/>3. CATHODE<br/>4. CATHODE<br/>5. ANODE<br/>6. CATHODE</p>               | <p><b>STYLE 8:</b><br/>PIN 1. DRAIN<br/>2. DRAIN<br/>3. GATE<br/>4. SOURCE<br/>5. DRAIN<br/>6. DRAIN</p>                      | <p><b>STYLE 9:</b><br/>PIN 1. SOURCE 1<br/>2. GATE 1<br/>3. DRAIN 2<br/>4. SOURCE 2<br/>5. GATE 2<br/>6. DRAIN 1</p>                     |
| <p><b>STYLE 10:</b><br/>PIN 1. CATHODE 1<br/>2. N/C<br/>3. CATHODE 2<br/>4. ANODE 2<br/>5. N/C<br/>6. ANODE 1</p>              |   |  |

**GENERIC MARKING DIAGRAM\***

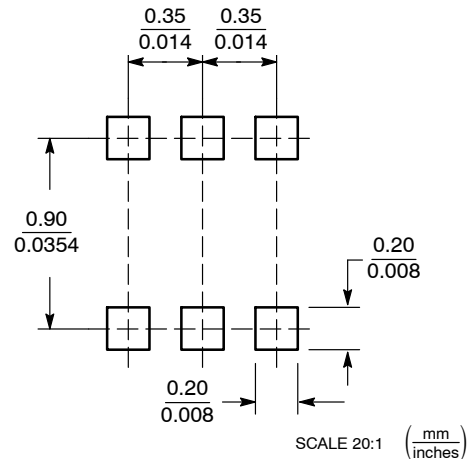


X = Specific Device Code  
M = Month Code

\*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.

**SOLDERING FOOTPRINT\***



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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<b>DESCRIPTION:</b>	<b>SOT-963, 1X1, 0.35P</b>	<b>PAGE 1 OF 1</b>

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