

**Maximum Ratings** @T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current	I <sub>PP</sub>	15	A	8/20μs (Notes 6 & 7)
ESD Protection – Contact Discharge	V <sub>ESD_Contact</sub>	±30	kV	Standard IEC 61000-4-2(Note 7)
ESD Protection – Air Discharge	V <sub>ESD_Air</sub>	±30	kV	Standard IEC 61000-4-2(Note 7)

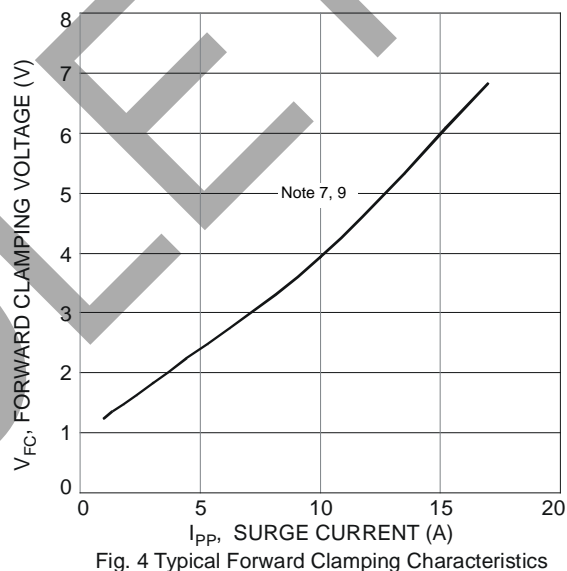
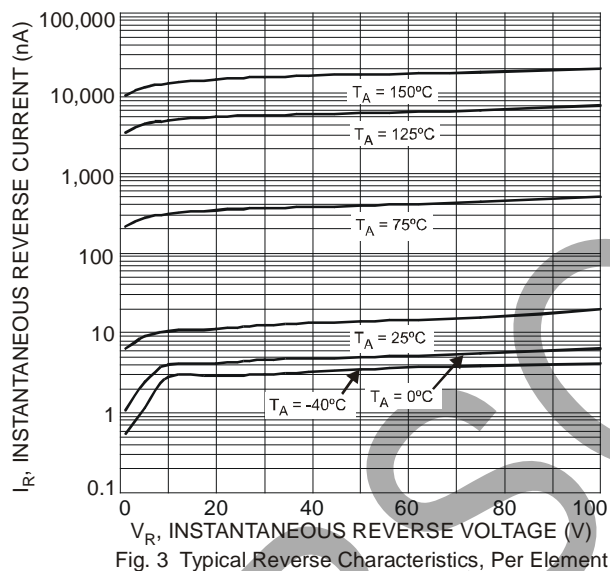
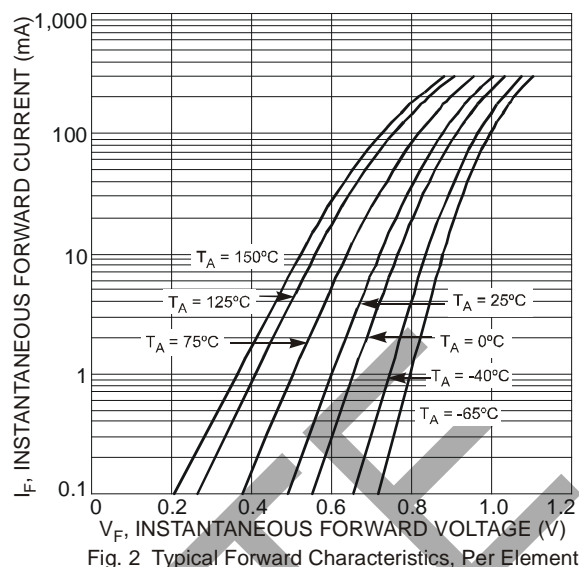
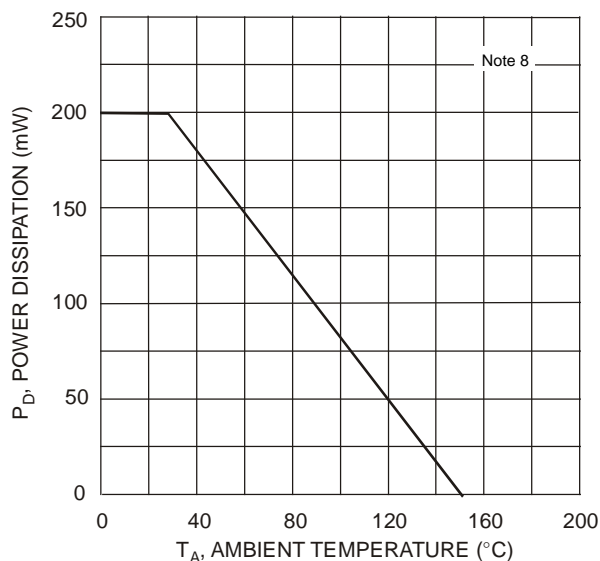
**Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 8)	P <sub>D</sub>	200	mW
Thermal Resistance Junction to Ambient Air (Note 8)	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	°C

**Electrical Characteristics** @T<sub>A</sub> = 25°C unless otherwise specified

Characteristic (Note 6)	Symbol	Min	Typ	Max	Unit	Test Conditions
Reverse Working Voltage	V <sub>RWM</sub>	—	—	70	V	—
Reverse Current	I <sub>RM</sub>	—	—	100	nA	V <sub>RM</sub> = 70V
Forward Clamping Voltage (Note 7)	V <sub>FC</sub>	—	2	6	V	I <sub>PP</sub> = 3A; per IEC 61000-4-5 (Note 9)
		—	4	8		I <sub>PP</sub> = 10A; per IEC 61000-4-5 (Note 9)
Capacitance	C <sub>T</sub>	—	1	1.5	pF	V <sub>R</sub> = 0V, f = 1MHz (Note 10)
		—	1.7	2.5		V <sub>R</sub> = 0V, f = 1MHz (Note 11)

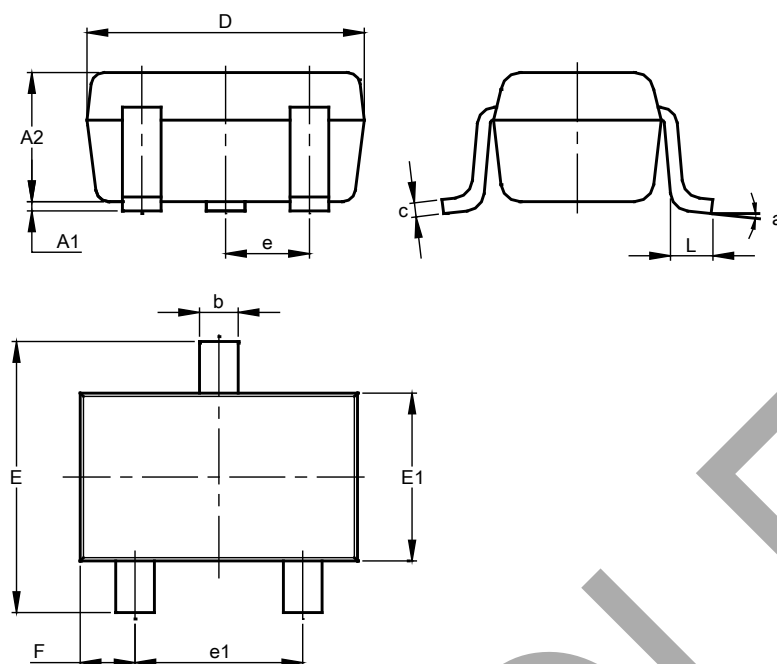
- Notes:
6. Diodes Short duration pulse test used to minimize self-heating effect.
  7. Anti-parallel connection.
  8. Device mounted on FR-4 PCB with minimum recommended pad layout.
  9. Clamping voltage value is based on an 8 × 20μs peak pulse current (I<sub>PP</sub>) waveform.
  10. Total capacitance line to ground (per diode).
  11. Total capacitance line to ground (anti-parallel connection).



## Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT323

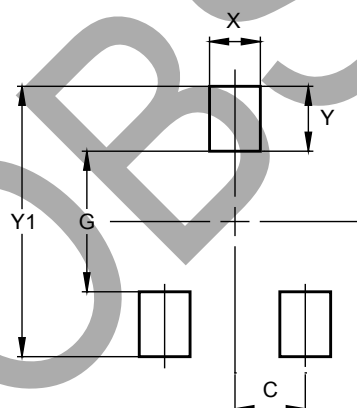


SOT323			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.25	0.40	0.30
c	0.10	0.18	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
e1	1.20	1.40	1.30
F	0.375	0.475	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

## Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT323



Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.470
Y	0.600
Y1	2.500

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