

Maximum Ratings @T_A = 25°C unless otherwise specified

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

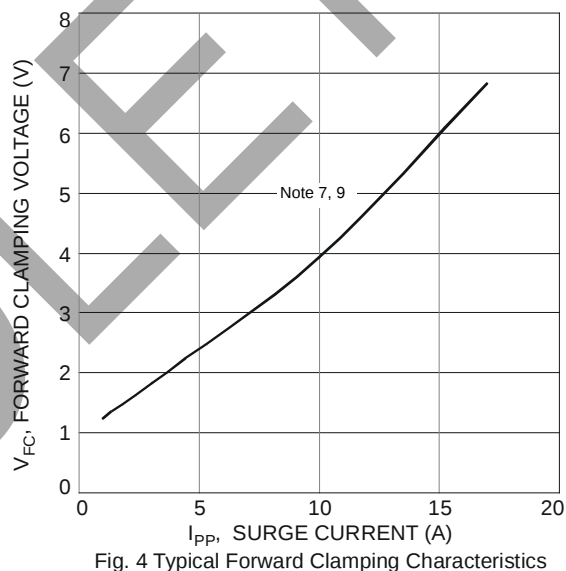
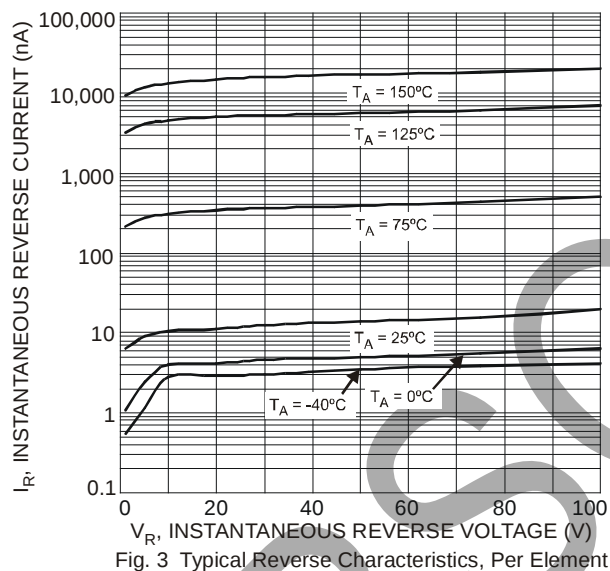
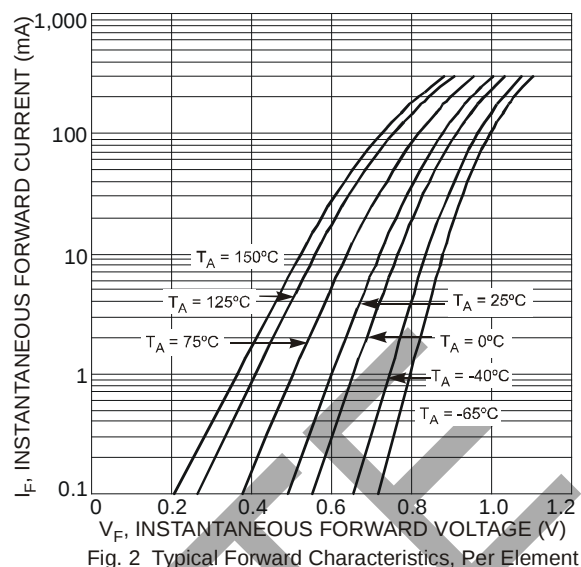
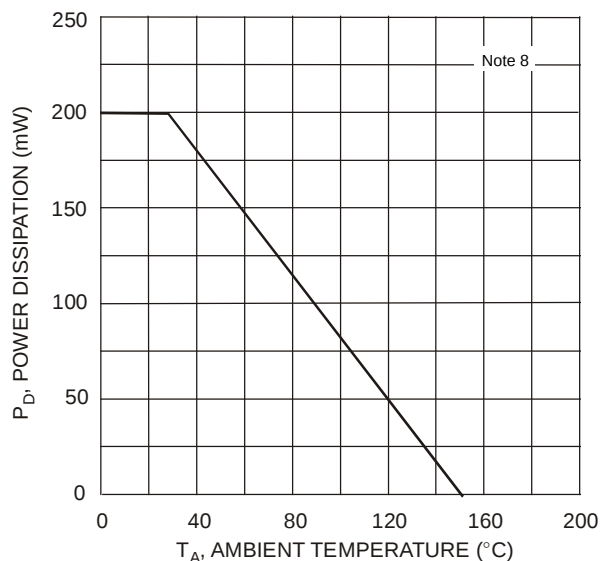
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 8)	P _D	200	mW
Thermal Resistance Junction to Ambient Air (Note 8)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

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

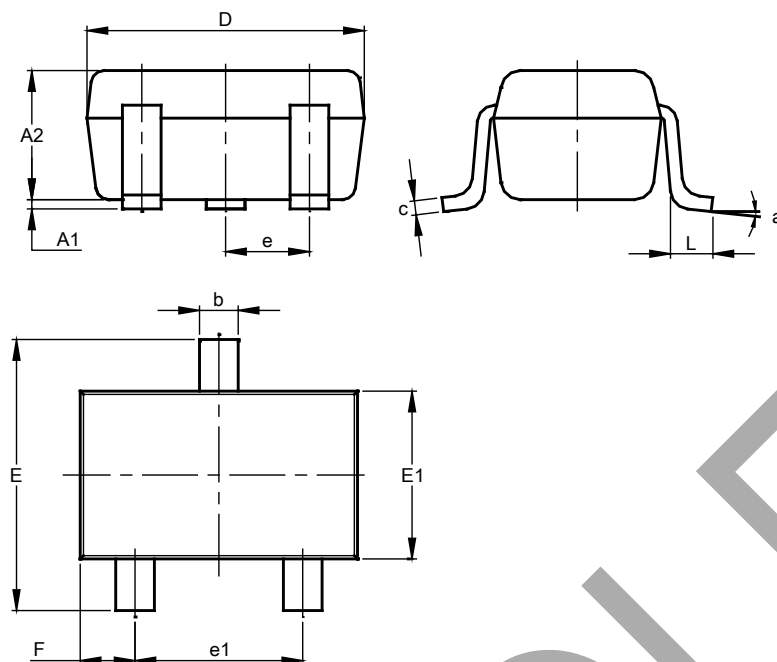
- Notes:
- Diodes Short duration pulse test used to minimize self-heating effect.
 - Anti-parallel connection.
 - Device mounted on FR-4 PCB with minimum recommended pad layout.
 - Clamping voltage value is based on an 8 × 20μs peak pulse current (I_{PP}) waveform.
 - Total capacitance line to ground (per diode).
 - 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

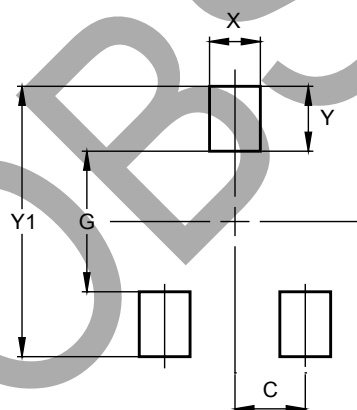


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Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.25	0.40	0.30
c	0.10	0.18	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
e1	1.20	1.40	1.30
F	0.375	0.475	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

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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