

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Forward Continuous Current	I _F	150	mA
Repetitive Peak Forward Current (Note 6) @ t _p < 1.0s, Duty Cycle < 50%	I _{FRM}	350	mA
Forward Surge Forward Current (Note 6) @ t _p = 10ms	I _{FSM}	750	mA

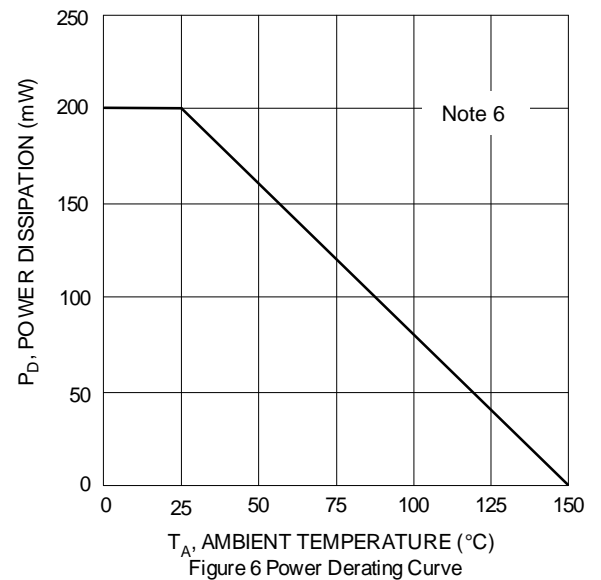
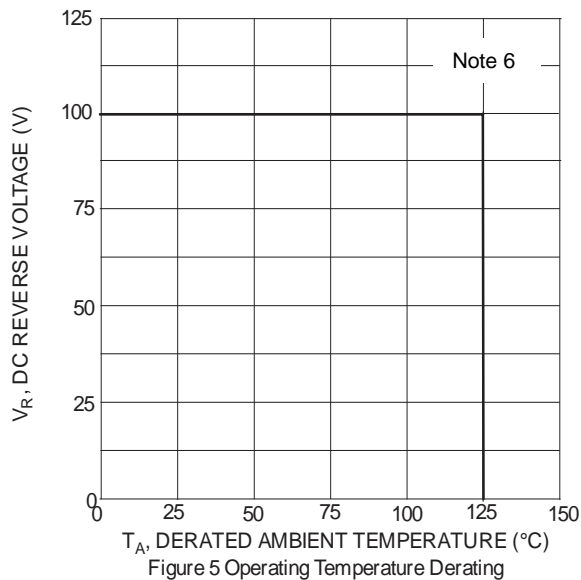
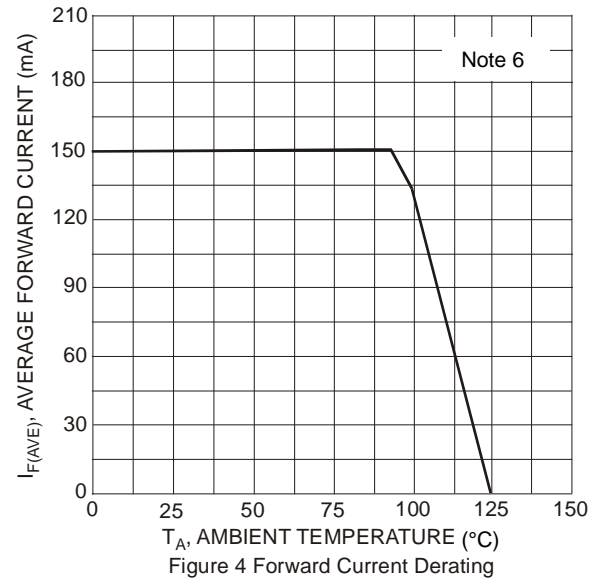
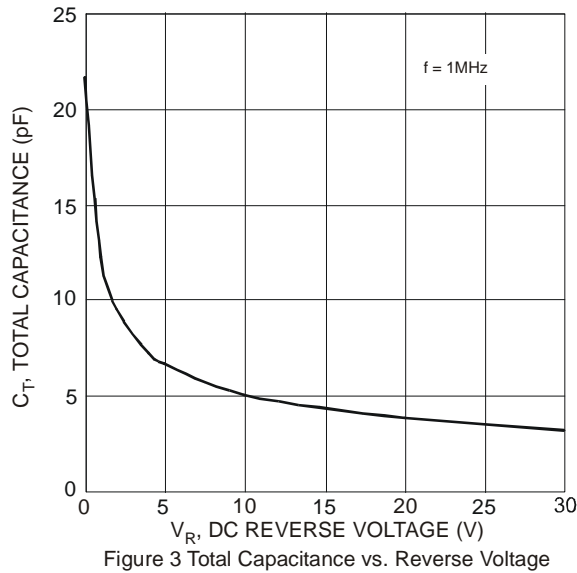
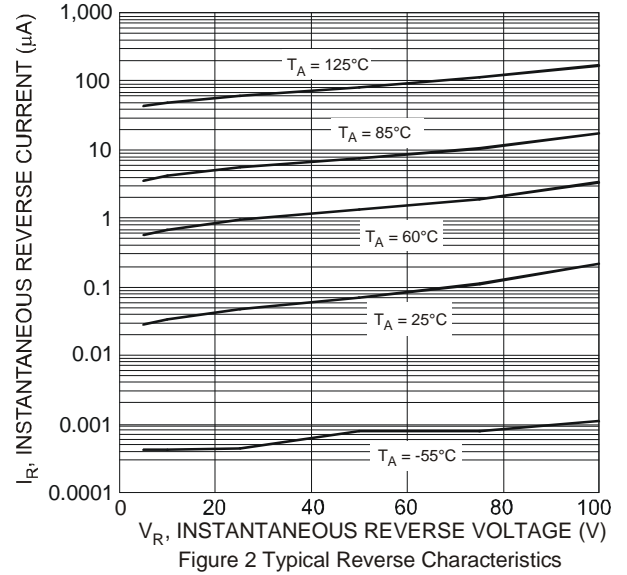
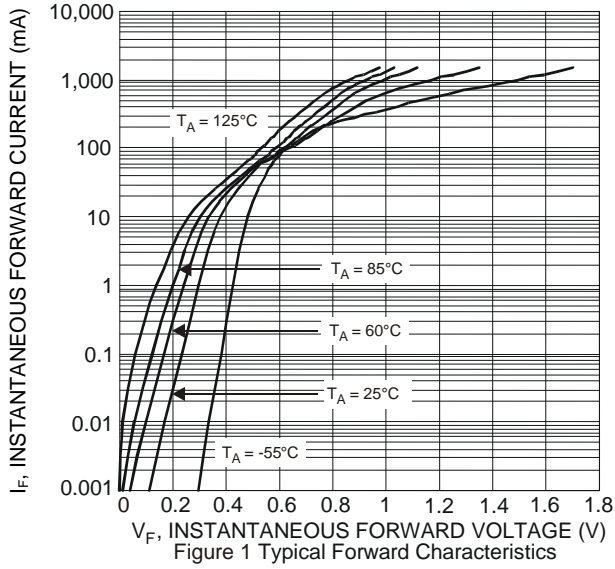
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation	P _D	200	mW
Thermal Resistance, Junction to Ambient Air (Note 6) Thermal Resistance, Junction to Ambient Air (Note 7)	R _{θJA}	420 370	°C/W
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 8)	V _{(BR)R}	100	—	—	V	I _R = 100μA
Forward Voltage	V _F	—	—	0.25 0.45 1.00	V	I _F = 0.1mA I _F = 10mA I _F = 250mA
Peak Reverse Current (Note 8)	I _R	—	—	0.3 5.0 0.5 7.5 1.0 15 2.0 20	μA	V _R = 1.5V V _R = 1.5V, T _J = +60°C V _R = 10V V _R = 10V, T _J = +60°C V _R = 50V V _R = 50V, T _J = +60°C V _R = 75V V _R = 75V, T _J = +60°C
Total Capacitance	C _T	—	20 12	—	pF	V _R = 0V, f = 1.0MHz V _R = 1.0V, f = 1.0MHz

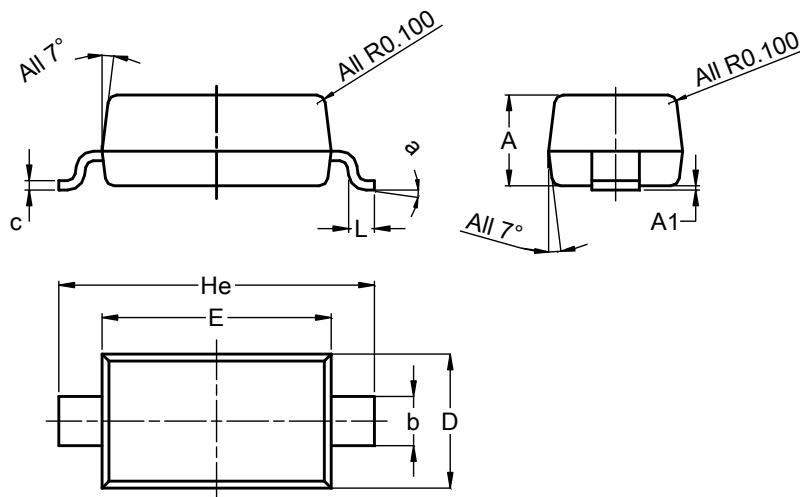
- Notes:
6. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at <http://www.diodes.com/package-outlines.html>.
 7. Part mounted on Polymide board with recommended pad layout, which can be found on our website at <http://www.diodes.com/package-outlines.html>.
 8. Short duration pulse test used to minimize self-heating effect.



Package Outline Dimensions

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

SOD123

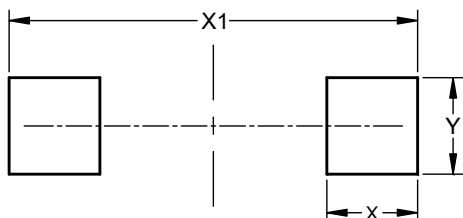


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Dim	Min	Max	Typ
A	1.00	1.35	1.05
A1	0.00	0.10	0.05
b	0.52	0.62	0.57
c	0.10	0.15	0.11
D	1.40	1.70	1.55
E	2.55	2.85	2.65
He	3.55	3.85	3.65
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

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Dimensions	Value (in mm)
X	0.900
X1	4.050
Y	0.950

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