

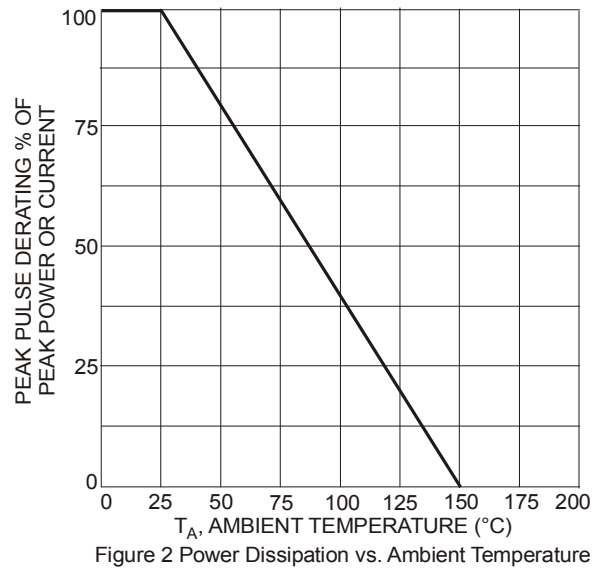
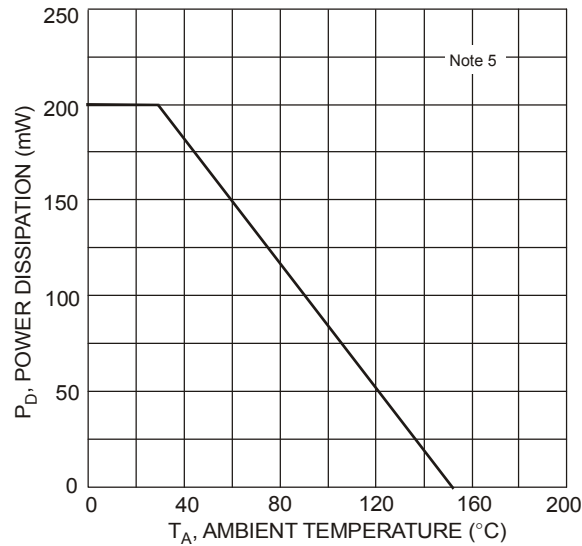
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	P_D	200	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{\theta JA}$	625	$^{\circ}\text{C/W}$
Operating Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^{\circ}\text{C}$

Electrical Characteristics (@ $T_A = +25^{\circ}\text{C}$, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Reverse Working Voltage	V_{RWM}	—	—	12.0	V	—
Reverse Current (Note 6)	I_R	—	10	100	nA	$V_R = V_{RWM} = 12.0\text{V}$
Reverse Breakdown Voltage	V_{BR}	13.3	—	15.75	V	$I_R = 1\text{mA}$
Reverse Clamping Voltage	V_{CL}	—	—	19	V	$I_{PP} = 5\text{A}$, $t_p = 8/20\mu\text{s}$
		—	—	22		$I_{PP} = 15\text{A}$, $t_p = 8/20\mu\text{s}$
		—	—	24		$I_{PP} = 25\text{A}$, $t_p = 8/20\mu\text{s}$
Capacitance	C_T	—	180	—	pF	$V_R = 0\text{V}$, $f = 1\text{MHz}$

Notes: 5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website at <http://www.diodes.com>.
 6. Short duration pulse test used to minimize self-heating effect.



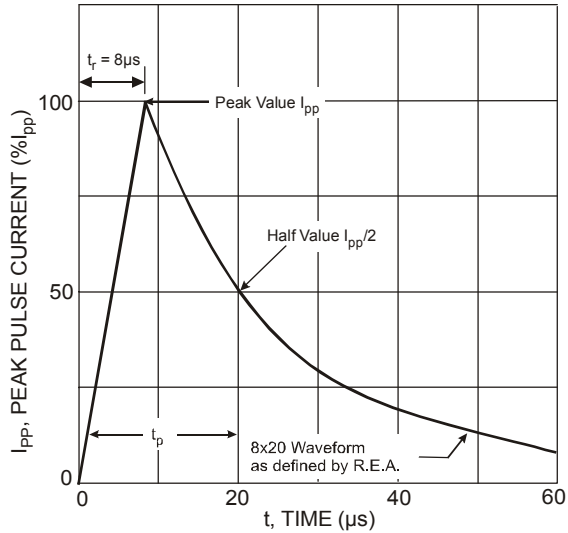


Figure 3 Typical 8 x 20µs Pulse Waveform

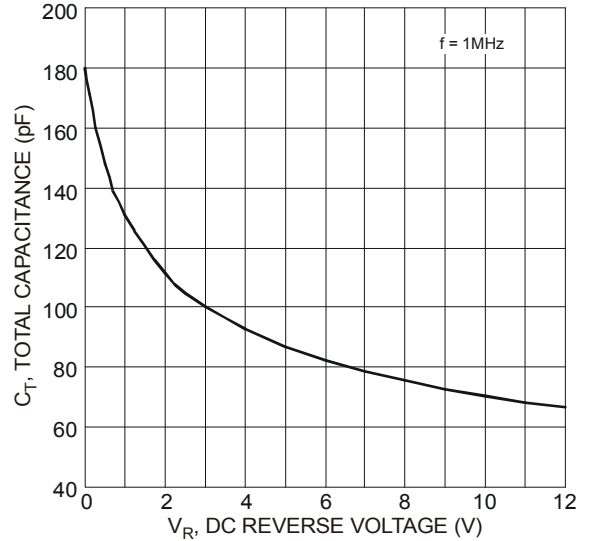


Figure 4 Typical Total Capacitance

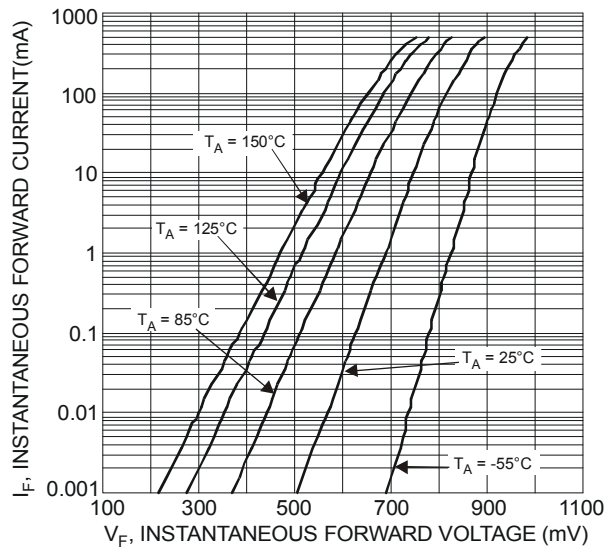


Figure 5 Typical Forward Characteristics

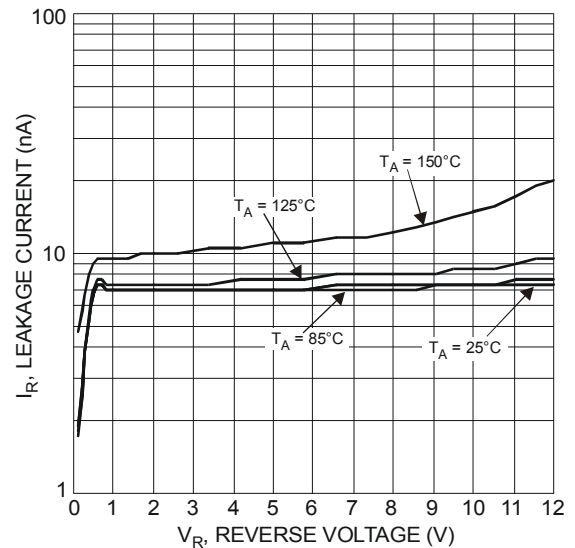
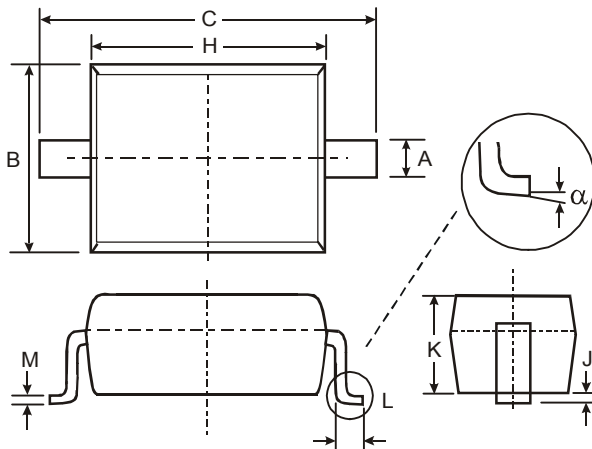


Figure 6 Typical Reverse Characteristics

Package Outline Dimensions

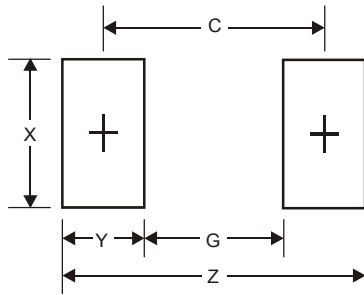
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.



SOD323		
Dim	Min	Max
A	0.25	0.35
B	1.20	1.40
C	2.30	2.70
H	1.60	1.80
J	0.00	0.10
K	1.0	1.1
L	0.20	0.40
M	0.10	0.15
α	0°	8°
All Dimensions in mm		

Suggested Pad Layout

Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version.



Dimensions	Value (in mm)
Z	3.75
G	1.05
X	0.65
Y	1.35
C	2.40

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