

**Maximum Ratings** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	P <sub>PP</sub>	200	W	8/20μs, Per Figure 3
Peak Pulse Current	I <sub>PP</sub>	4	A	8/20μs, Per Figure 3
ESD Protection – Contact Discharge	V <sub>ESD_Contact</sub>	±30	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V <sub>ESD_Air</sub>	±30	kV	Standard IEC 61000-4-2
ESD Protection – Human Body Model	V <sub>ESD_HBM</sub>	±16	kV	MIL-STD-883
Electrical Fast Transient Current	I <sub>EFT</sub>	80	A	Standard IEC 61000-4-4(EFT)

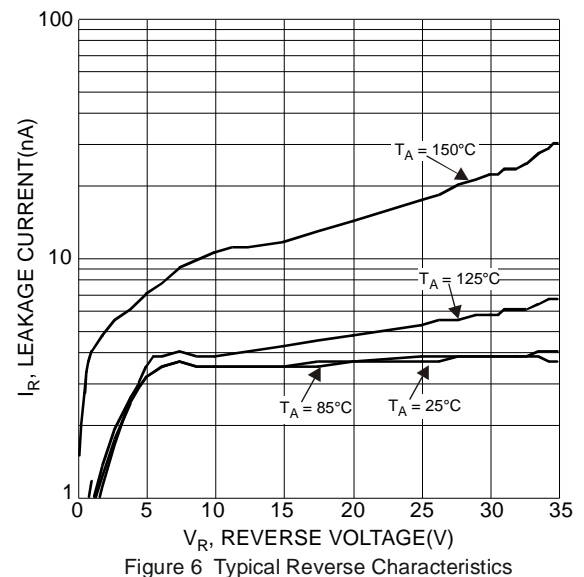
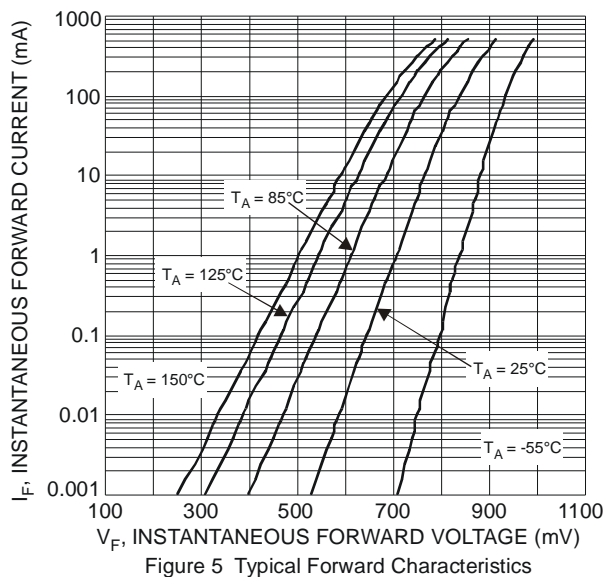
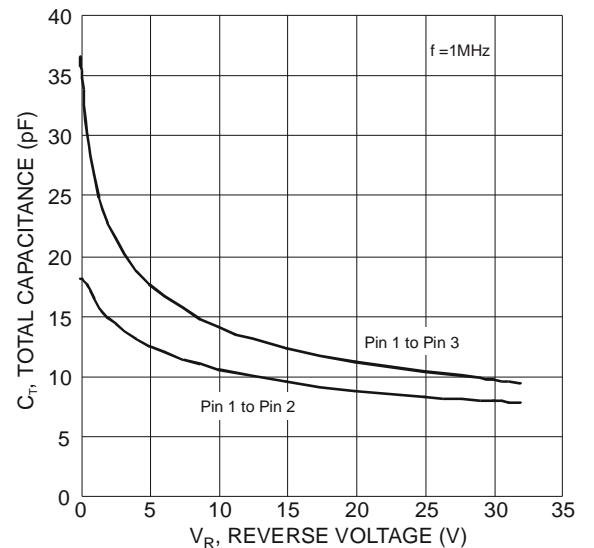
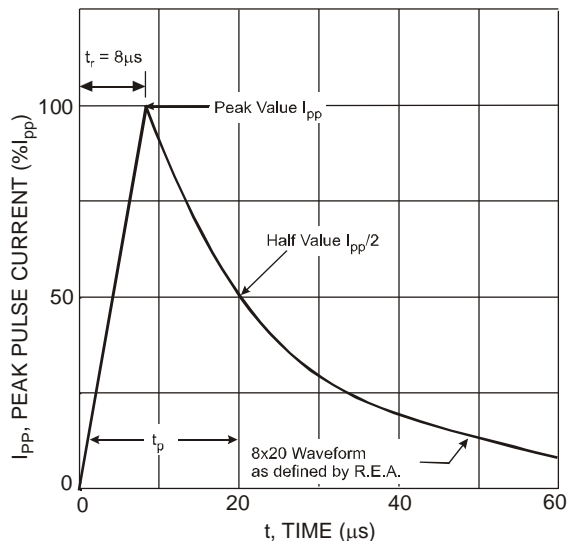
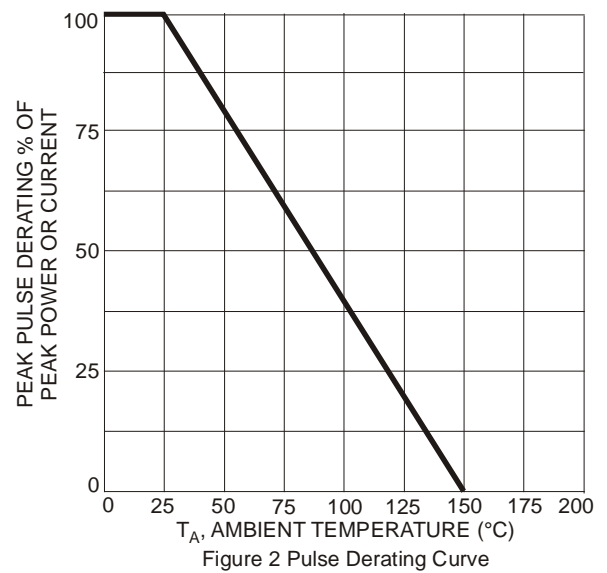
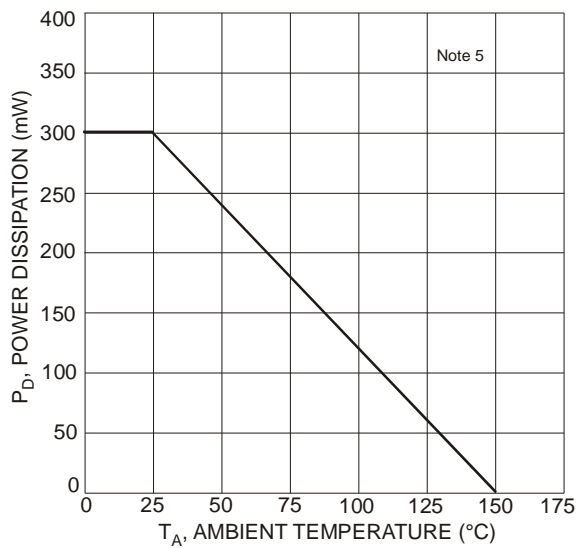
**Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	P <sub>D</sub>	300	mW
Thermal Resistance, Junction to Ambient (Note 5)	R <sub>θJA</sub>	417	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-65 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

**Electrical Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Reverse Working Voltage	V <sub>RWM</sub>	—	—	32	V	—
Breakdown Voltage	V <sub>BR</sub>	34	—	40	V	I <sub>R</sub> = 1.0mA
Reverse Leakage Current (Note 6)	I <sub>R</sub>	—	—	100	nA	V <sub>RWM</sub> = 32V
Clamping Voltage (Note 7)	V <sub>CL</sub>	—	—	42	V	I <sub>PP</sub> = 1A, t <sub>p</sub> = 8/20μs
		—	—	50	V	I <sub>PP</sub> = 4A, t <sub>p</sub> = 8/20μs
Channel Input Capacitance	C <sub>T</sub>	—	36	42	pF	V <sub>IN</sub> = 0V, f = 1MHz, Pin 1 or Pin 2 to Pin 3
		—	18	21	pF	V <sub>IN</sub> = 0V, f = 1MHz, between Pin 1 and Pin 2

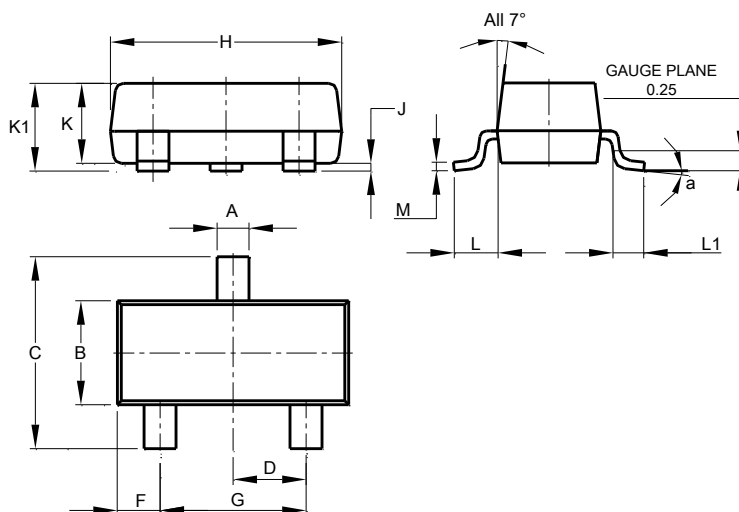
- Notes:
5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes' website at <http://www.diodes.com/package-outlines.html>.
  6. Short duration pulse test used to minimize self-heating effect.
  7. Measured from pin 1 or pin 2 to pin 3; Non-repetitive current pulse per Figure 3.



## Package Outline Dimensions

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

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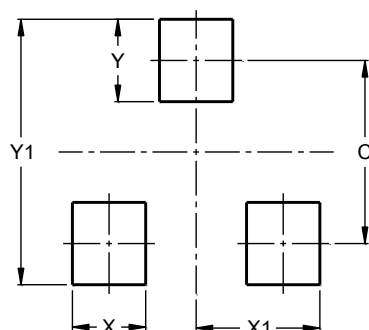


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Dim	Min	Max	Typ
A	0.37	0.51	0.40
B	1.20	1.40	1.30
C	2.30	2.50	2.40
D	0.89	1.03	0.915
F	0.45	0.60	0.535
G	1.78	2.05	1.83
H	2.80	3.00	2.90
J	0.013	0.10	0.05
K	0.890	1.00	0.975
K1	0.903	1.10	1.025
L	0.45	0.61	0.55
L1	0.25	0.55	0.40
M	0.085	0.150	0.110
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)
C	2.0
X	0.8
X1	1.35
Y	0.9
Y1	2.9

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