

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

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	250	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	177	V
Forward Continuous Current (Note 5)	I <sub>FM</sub>	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 50µs @ t = 100µs @ t = 10ms	I <sub>FSM</sub>	10 8 2	A

**Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P <sub>D</sub>	300	mW
Thermal Resistance Junction to Ambient Air (Note 5)	R <sub>θJA</sub>	417	°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	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V <sub>(BR)R</sub>	250	—	V	I <sub>R</sub> = 100µA
Forward Voltage	V <sub>F</sub>	—	1.05 1.25	V	I <sub>F</sub> = 100mA I <sub>F</sub> = 200mA
Reverse Current (Note 6)	I <sub>R</sub>	—	100 100	nA µA	V <sub>R</sub> = 200V V <sub>R</sub> = 200V, T <sub>J</sub> = +150°C
Total Capacitance	C <sub>T</sub>	—	5	pF	V <sub>R</sub> = 6, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	—	50	ns	V <sub>R</sub> = 6V, I <sub>F</sub> = 5mA

Notes: 5. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.  
 6. Short duration pulse test used to minimize self-heating effect.

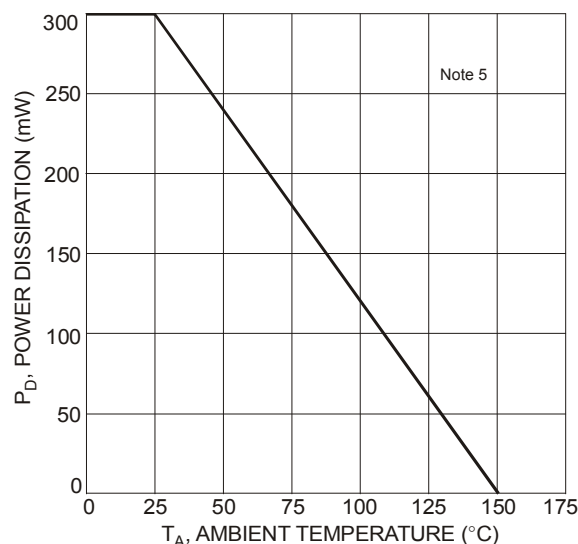


Figure 1 Power Derating Curve, Total Package

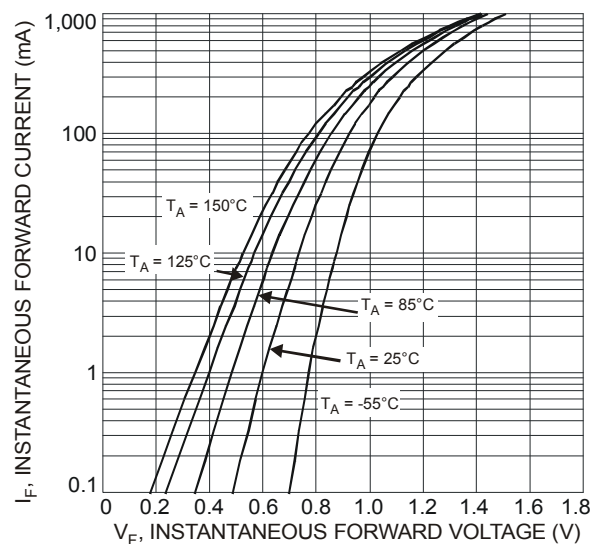


Figure 2 Typical Forward Characteristics, Per Element

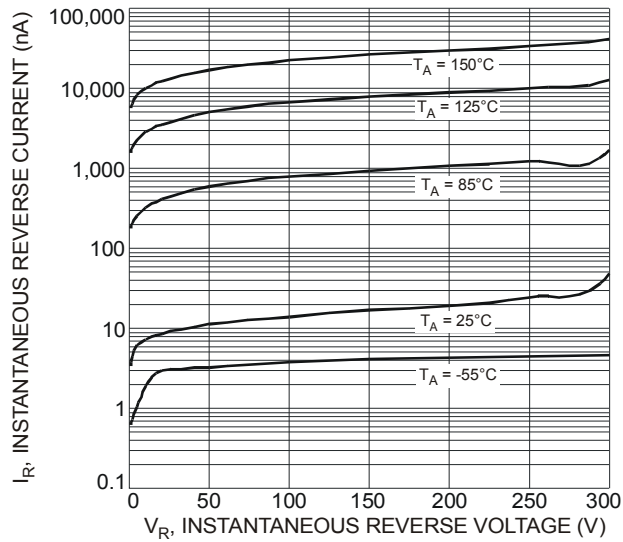


Figure 3 Typical Reverse Characteristics, Per Element

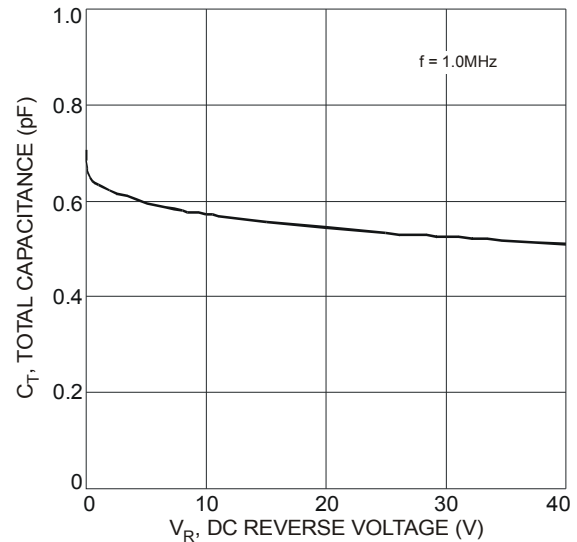
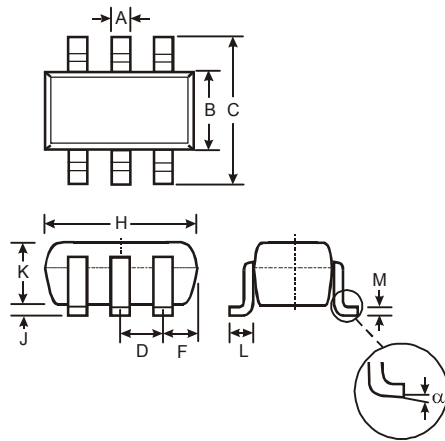


Figure 4 Total Capacitance vs. Reverse Voltage, Per Element

## Package Outline Dimensions

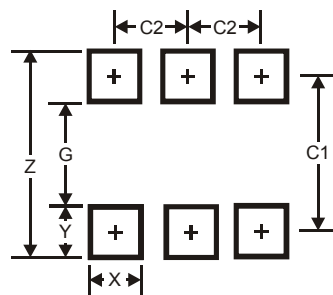
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.



SOT363		
Dim	Min	Max
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 Typ	
F	0.40	0.45
H	1.80	2.20
J	0	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.22
$\alpha$	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	2.5
G	1.3
X	0.42
Y	0.6
C1	1.9
C2	0.65

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