

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage		$V_{R(RMS)}$	53	V
Forward Continuous Current	(Note 5)	I _{FM}	300	mA
Average Rectified Output Current	(Note 5)	lo	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	I _{FSM}	2.0 1.0	А

Thermal Characteristics

Characteristic		Symbol	Value	Unit
Power Dissipation	(Note 5)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air	(Note 5)	$R_{ hetaJA}$	625	°C/W
Operating and Storage Temperature Range		T_J,T_STG	-65 to +150	°C

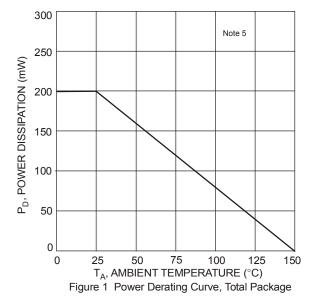
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

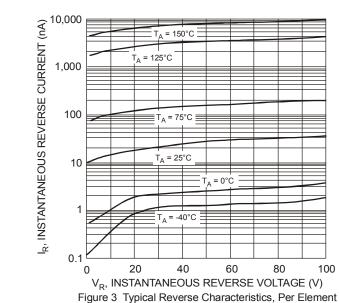
Characteristic		Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	(Note 6)	$V_{(BR)R}$	75	_	V	$I_R = 2.5 \mu A$
Forward Voltage		V _F	_	0.715 0.855 1.0 1.25	V	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Reverse Current	(Note 6)	I _R	_	2.5 50 30 25	μΑ μΑ μΑ nA	V _R = 75V V _R = 75V, T _J = +150°C V _R = 25V, T _J = +150°C V _R = 20V
Total Capacitance		Ст	_	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time		t _{rr}	_	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

Notes:

^{5.} Device mounted on FR-4 PC 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.







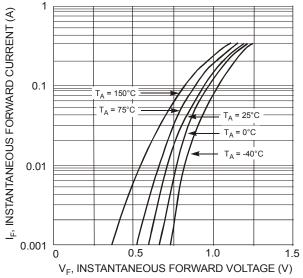


Figure 2 Typical Forward Characteristics, Per Element

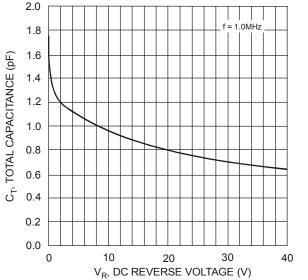
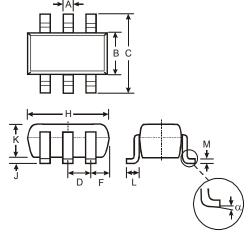


Figure 4 Total Capacitance vs. Reverse Voltage, Per Element

Package Outline Dimensions

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

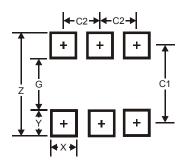


	SOT363					
Dim	Min	Max	Тур			
Α	0.10	0.30	0.25			
В	1.15	1.35	1.30			
С	2.00	2.20	2.10			
D	0.65 Typ					
F	0.40	0.45	0.425			
Н	1.80	2.20	2.15			
J	0	0.10	0.05			
K	0.90	1.00	1.00			
L	0.25	0.40	0.30			
M	0.10	0.22	0.11			
α	0°	8°	-			
All	All Dimensions in mm					



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
Х	0.42
Υ	0.6
C1	1.9
C2	0.65

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