

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

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 _R WM V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current (Note 6)	I _{FM}	300	mA
Average Rectified Output Current (Note 6)	Io	200	mA
Non-Repetitive Peak Forward Surge Current $@t = 1.0 \mu s$ $@t = 1.0 s$	I _{FSM}	2.0 1.0	Α

Thermal Characteristics

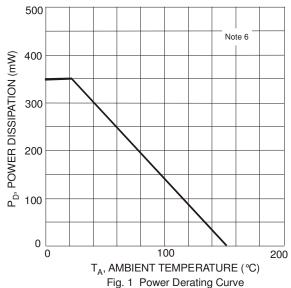
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P _D	350	mW
Thermal Resistance Junction to Ambient Air (Note 6)	$R_{ heta JA}$	357	°C/W
Operating and Storage Temperature Range	T_{J} , T_{STG}	-65 to +150	.€

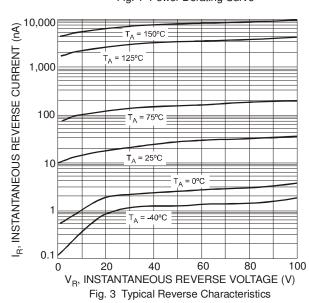
Electrical Characteristics (@T_A = +25 °C, unless otherwise specified.)

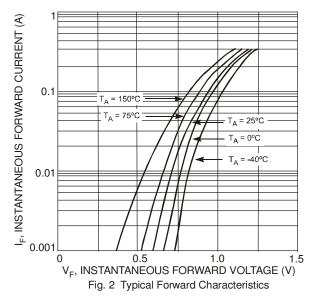
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	75		V	$I_R = 100 \mu A$
Forward Voltage	V _F	_	0.715 0.855 1.0 1.25	٧	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Leakage Current (Note 7)	I _R	_	1.0 50 30 25	μΑ μΑ	$V_R = 75V$ $V_R = 75V$, $T_J = +150$ °C $V_R = 25V$, $T_J = +150$ °C $V_R = 20V$
Total Capacitance	C _T	_	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

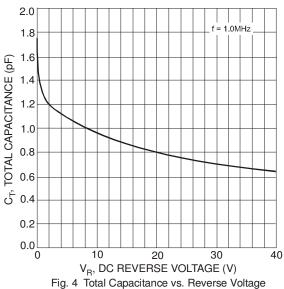
Device mounted on glass epoxy PCB 1.6" x 1.6" x 0.06"; mounting pad for the cathode lead min. 0.93in².
 Short duration pulse test used to minimize self-heating effect.





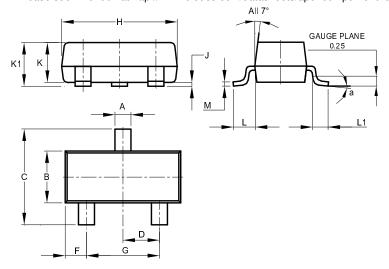






Package Outline Dimensions

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



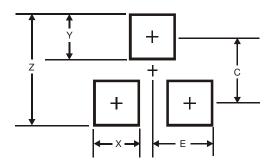
SOT23				
Dim	Min	Max	Тур	
Α	0.37	0.51	0.40	
В	1.20	1.40	1.30	
C	2.30	2.50	2.40	
D	0.89	1.03	0.915	
F	0.45	0.60	0.535	
G	1.78	2.05	1.83	
Н	2.80	3.00	2.90	
J	0.013	0.10	0.05	
K	0.890	1.00	0.975	
K1	0.903	1.10	1.025	
L	0.45	0.61	0.55	
L1	0.25	0.55	0.40	
M	0.085	0.150	0.110	
а	8°			
All Dimensions in mm				



Suggested Pad Layout

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

SOT23



Dimensions	Value (in mm)
Z	2.9
Х	0.8
Υ	0.9
С	2.0
E	1.35

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