

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current (Note 6)	I _{FM}	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s	I _{FSM}	600	mA

Thermal Characteristics

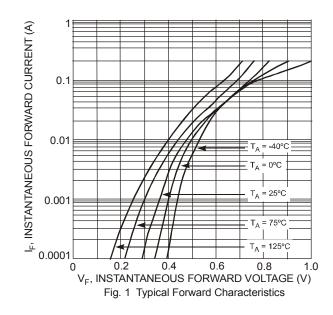
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 6)	R _{θJA}	625	°C/W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

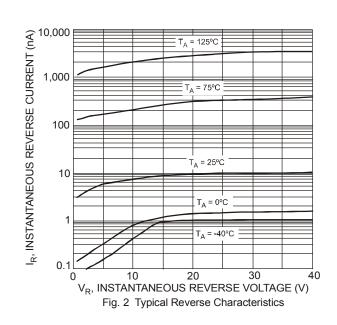
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	40		V	I _R = 10μA
Forward Voltage	V _F	_	380 1000	mV mV	I_F = 1.0mA, t_p < 300 μ s I_F = 40mA, t_p < 300 μ s
Leakage Current (Note 7)	I _R	_	200	nA	V _R = 30V
Total Capacitance	C _T	_	5.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	5.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

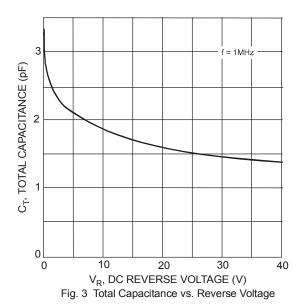
Notes:

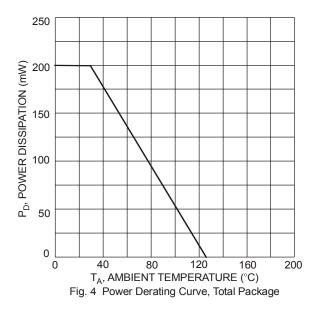
- 6. Device mounted on FR4 PC board with recommended pad layout, per http://www.diodes.com
- 7. Short duration pulse test used to minimize self-heating effect.





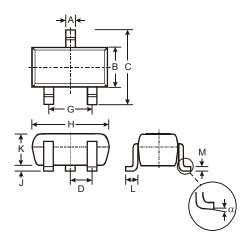






Package Outline Dimensions

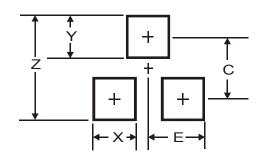
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



	SOT323			
Dim	Min	Max	Тур	
Α	0.25	0.40	0.30	
В	1.15	1.35	1.30	
С	2.00	2.20	2.10	
D	-	-	0.65	
G	1.20	1.40	1.30	
Н	1.80	2.20	2.15	
J	0.0	0.10	0.05	
K	0.90	1.00	1.00	
L	0.25	0.40	0.30	
M	0.10	0.18	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	2.8
Х	0.7
Υ	0.9
С	1.9
E	1.0



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