

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
Forward Continuous Current (Note 5)	I _{FM}	200	mA
Forward Surge Current (Note 5) @ t < 1.0s	I _{FSM}	600	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	150	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	833	°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.)

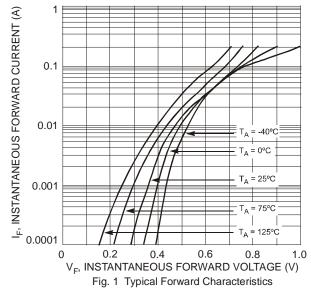
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	40	_	_	V	$I_R = 10\mu A$
Forward Voltage	V _F	_	_	380 1,000	mV	$t_p < 300 \mu s, I_F = 1.0 mA$ $t_p < 300 \mu s, I_F = 40 mA$
Reverse Leakage Current (Note 6)	I _R		20	200	nA	$t_p < 300 \mu s$, $V_R = 30 V$
Total Capacitance	C _T		4.0	5.0	рF	$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time	t _{rr}			5.0		$I_F = I_R = 10 \text{mA}$ to $I_R = 1.0 \text{mA}$, $R_L = 100 \Omega$

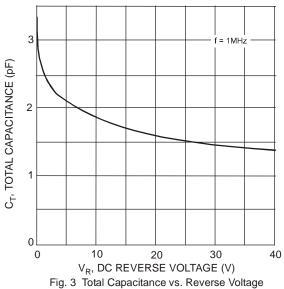
5. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.6. Short duration pulse test used to minimize self-heating effect.

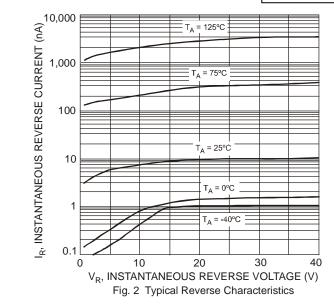
Notes:

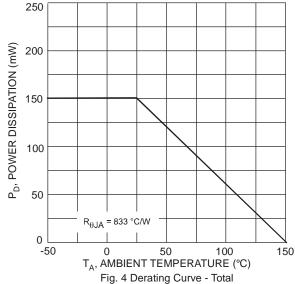








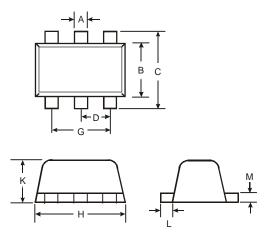






Package Outline Dimensions

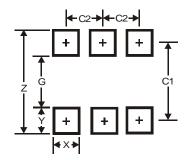
 $Please see AP02002 \ at \ http://www.diodes.com/datasheets/ap02002.pdf \ for \ the \ latest \ version.$



SOT-563				
Dim	Min	Max	Тур	
Α	0.15	0.30	0.20	
В	1.10	1.25	1.20	
С	1.55	1.70	1.60	
D	-	-	0.50	
G	0.90	1.10	1.00	
Н	1.50	1.70	1.60	
K	0.55	0.60	0.60	
L	0.10	0.30	0.20	
М	0.10	0.18	0.11	
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	2.2
G	1.2
Х	0.375
Y	0.5
С	1.7
E	0.5



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