

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	30	V
RMS Reverse Voltage	V _{R(RMS)}	21	V
Average Rectified Output Current (Note 5)	lo	200	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	1.0	A

Thermal Characteristics

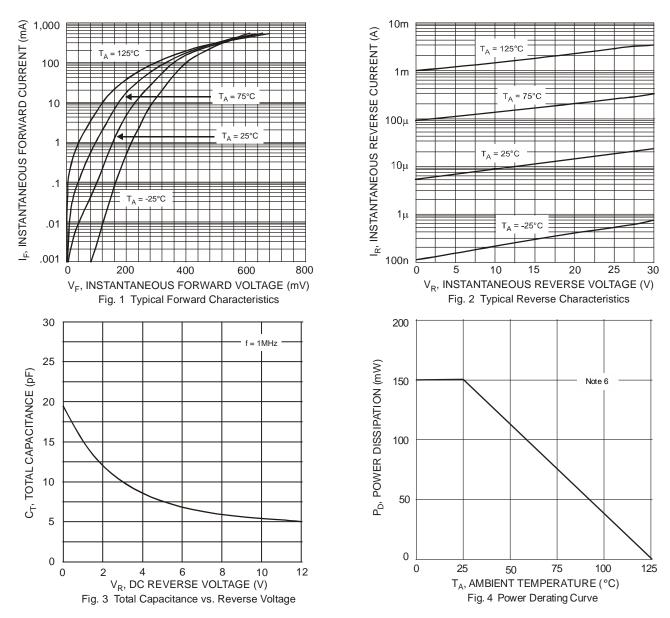
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	PD	150	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 5) Typical Thermal Resistance, Junction to Ambient Air (Note 6)	R _{θJA}	450 240	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +125	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage (Note 7)	V _{(BR)R}	30	_	_	V	I _R = 150μA
Forward Voltage Drop	V _F	—	_	0.15 0.20 0.35 0.50	V	I _F =100μA I _F =1mA I _F = 20mA I _F =200mA
Leakage Current (Note 7)	I _R	_	_	150 30	μΑ μΑ	V _R = 30V V _R = 10V
Total Capacitance	CT	_	20	_	pF	$V_{R} = 0V, f = 1.0MHz$

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 Notes: Part mounted on 1-inch sq. 2oz copper pad.
Short duration pulse test used to minimize self-heating effect.

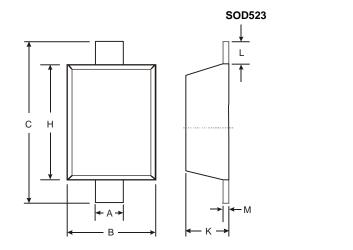






Package Outline Dimensions

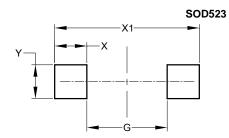
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



SOD523				
Dim	Min	Max		
Α	0.25	0.35		
В	0.70	0.90		
С	1.50	1.70		
Н	1.10	1.30		
Κ	0.55	0.65		
L	0.10	0.30		
М	0.10	0.12		
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)
G	0.80
Х	0.60
X1	2.00
Y	0.70



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