

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm	60	V
Average Rectified Output Current	lo	20	A
Non-Repetitive Peak Forward Surge Current 8.3mS	I _{FSM}	320	A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 6)	R _{0JA}	10	°C/W
Typical Thermal Resistance Junction to Case (Note 6)	R _{θJC}	2	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-55 to +150	°C

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

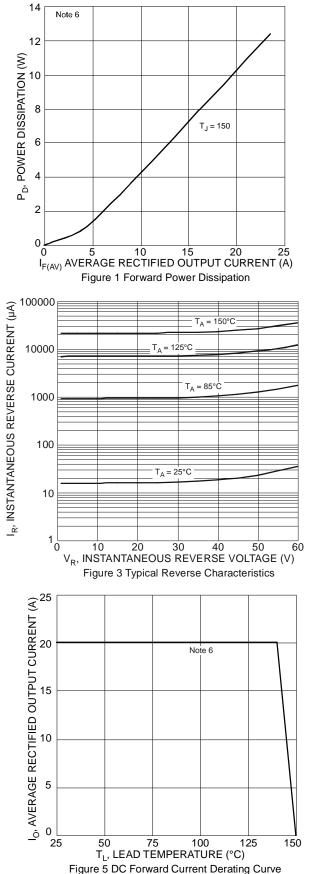
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F		0.43 0.52 0.38	 0.57 0.43		$I_F = 10A, T_A = +25^{\circ}C$ $I_F = 20A, T_A = +25^{\circ}C$ $I_F = 10A, T_A = +125^{\circ}C$
Leakage Current (Note 7)	I _R		0.04	0.18 45	mA	$V_R = 60V$, $T_A = +25^{\circ}C$ $V_R = 60V$, $T_A = +125^{\circ}C$

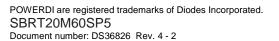
 Notes:
 6. Device mounted on 2 oz. PCB with heatsink 50mm*50mm*23mm.

 7. Short duration pulse test used to minimize self-heating effect.

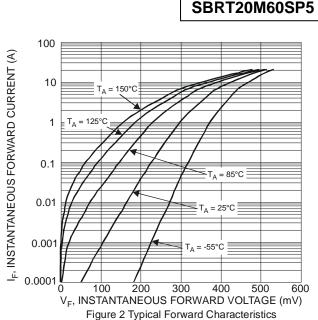


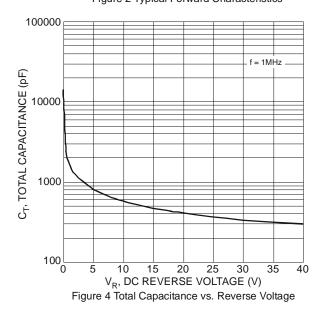
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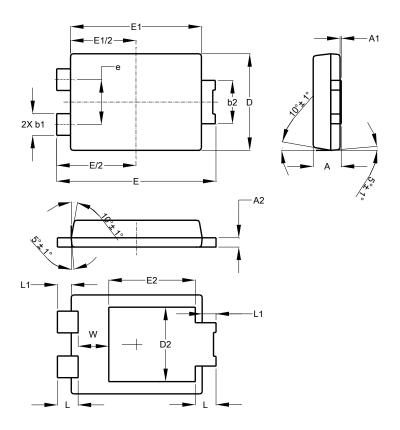






Package Outline Dimensions

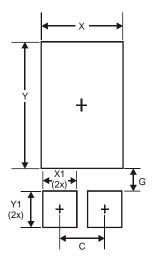
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



POWERDI [®] 5			
Dim	Min	Max	Тур
Α	1.05	1.15	1.10
A2	0.33	0.43	0.381
b1	0.80	0.99	0.89
b2	1.70	1.88	1.78
D	3.90	4.05	3.966
D2	-	-	3.054
E	6.40	6.60	6.504
е	-	-	1.84
E1	5.30	5.45	5.37
E2	-	-	3.549
L	0.75	0.95	0.85
L1	0.50	0.65	0.57
W	1.10	1.41	1.255
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)
С	1.840
G	0.852
Х	3.360
X1	1.390
Y	4.860
Y1	1.400

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