



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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectified Output Current (See also Figure 4)	Io	3	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	IFSM	100	А

Thermal Characteristics

Characteristic	Symbol	Тур	Max	Unit
Thermal Resistance Junction to Soldering Point	$R_{ heta JS}$	_	3.0	°C/W
Thermal Resistance Junction to Ambient Air (Note 6) T _A = +25°C	$R_{ heta JA}$	95	_	°C/W
Thermal Resistance Junction to Ambient Air (Note 7) T _A = +25°C	$R_{\theta JA}$	70	_	°C/W
Thermal Resistance Junction to Ambient Air (Note 8) T _A = +25°C	$R_{\theta JA}$	50	_	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to	+150	°C

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

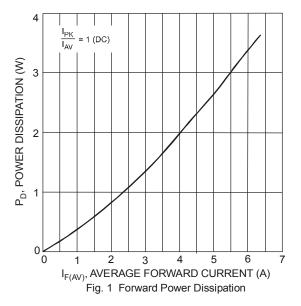
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 8)	$V_{(BR)R}$	60	_	_	V	$I_R = 0.2mA$
Forward Voltage			0.57	0.62	V	I _F = 3A, T _J = +25°C
		_	0.53	0.60		I _F = 3A, T _J = +100°C
	\/		0.51	0.57		I _F = 3A, T _J = +125°C
	V _F		0.70	0.76		I _F = 6A, T _J = +25°C
		_	0.62	0.70		I _F = 6A, T _J = +100°C
			0.60	0.66		I _F = 6A, T _J = +125°C
Reverse Leakage Current (Note 8)		_	3	150	μΑ	$T_J = +25^{\circ}C, V_R = 60V$
	I_{R}		_	10	mA	$T_J = +100^{\circ}C, V_R = 60V$
		_	1.5	15	mA	$T_J = +125^{\circ}C, V_R = 60V$

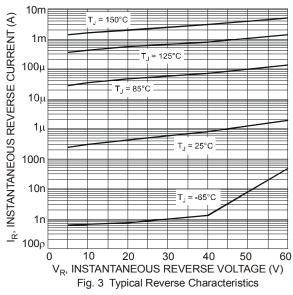
Notes:

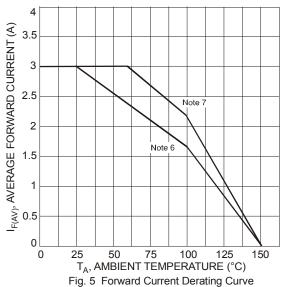
- 6. FR-4 PCB, 2 oz. Copper, minimum recommended pad layout per http://www.diodes.com.
- 8. Polymide PCB, 2 oz. Copper, minimum recommended pad layout per http://www.diodes.com.
 8. Polymide PCB, 2 oz. Copper. Cathode pad dimensions 9.4 mm x 7.4 mm. Anode pad dimensions 2.7 mm x 1.6 mm.
 9. Short duration pulse test used to minimize self-heating effect.

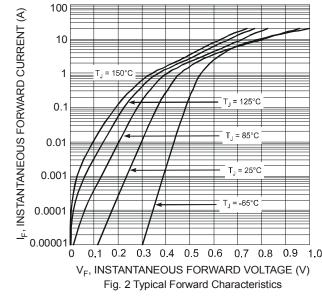


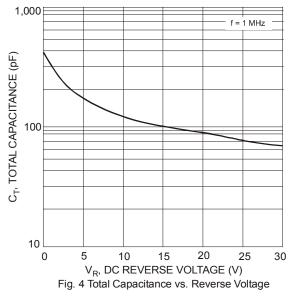


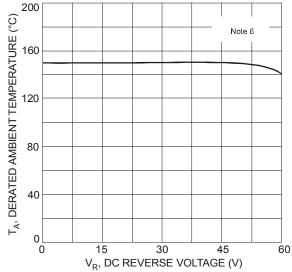








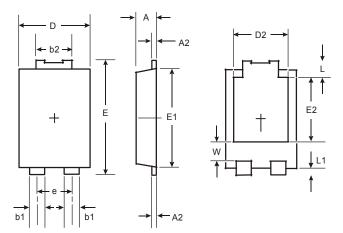






Package Outline Dimensions

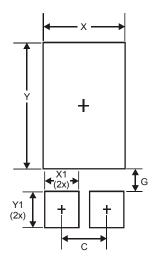
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for latest version.



POWERDI5				
Dim	Min	Max		
Α	1.05	1.15		
A2	0.33	0.43		
b1	0.80	0.99		
b2	1.70	1.88		
D	3.90	4.05		
D2	3.054 Typ			
Е	6.40	6.60		
е	1.84 Typ			
E1	5.30	5.45		
E2	3.549 Typ			
L	0.75	0.95		
L1	0.50	0.65		
W	1.10	1.41		
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)
C	1.840
G	0.852
Х	3.360
X1	1.390
Y	4.860
V1	1 400





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