

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	V _{RRM}	30	V
Average Rectified Output Current	I _O	1.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	25	A

Thermal Characteristics

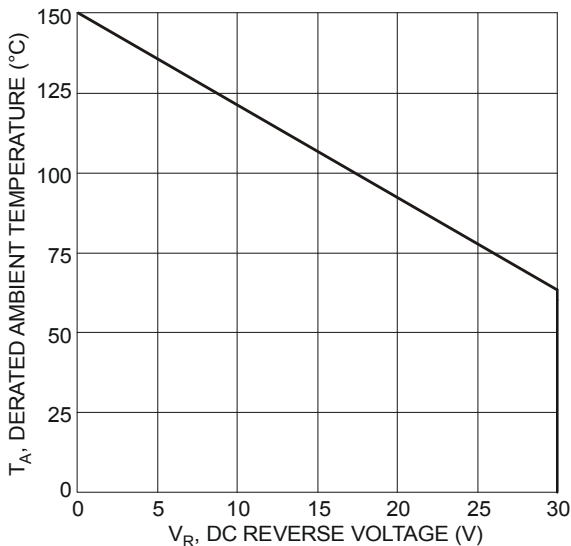
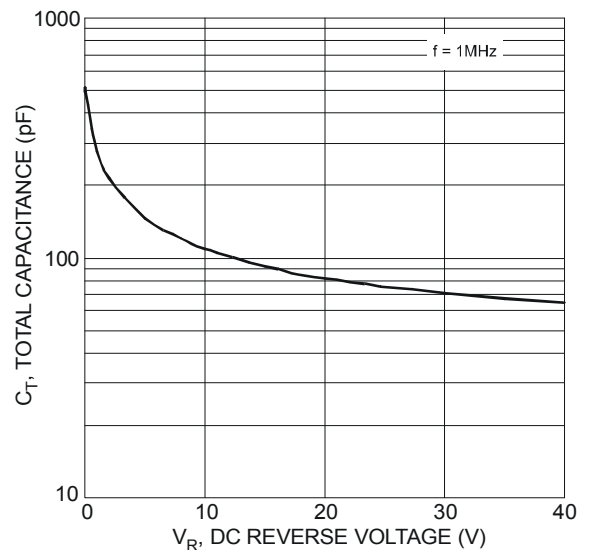
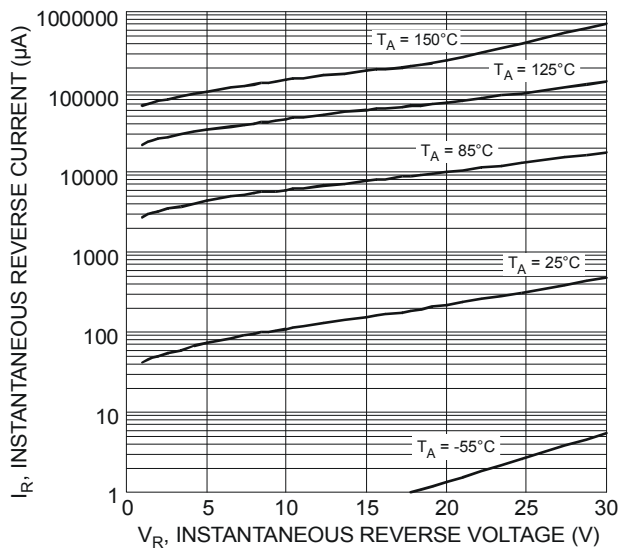
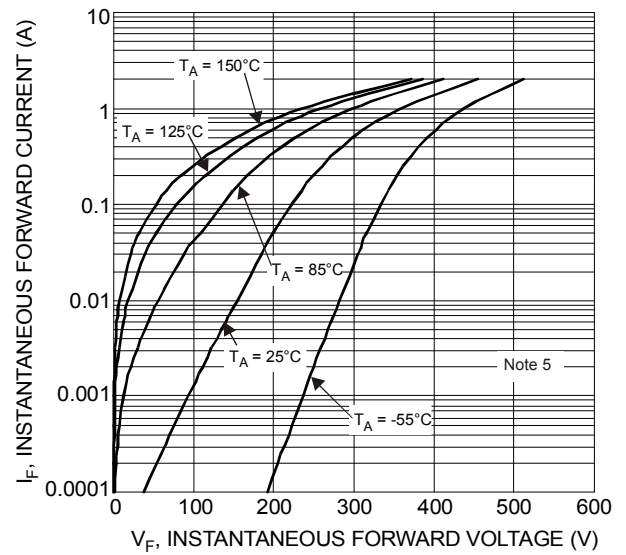
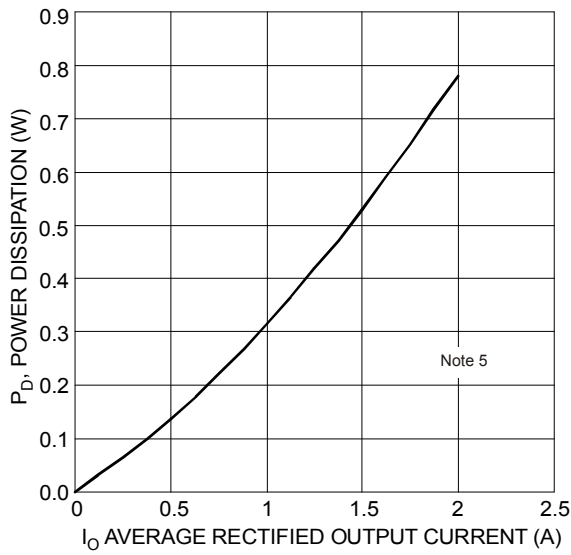
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance Junction to Ambient (Note 5)	R _{θJA}	130	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V _F	—	0.35	0.40	V	I _F = 1.0A, T _J = +25°C
		—	0.29	—		I _F = 1.0A, T _J = +85°C
Leakage Current (Note 6)	I _R	—	0.47	1.0	mA	V _R = 30V, T _J = +25°C
		—	17	—	mA	V _R = 30V, T _J = +85°C
Total Capacitance	C _T	—	150	—	pF	V _R = 5V, f = 1.0 MHz

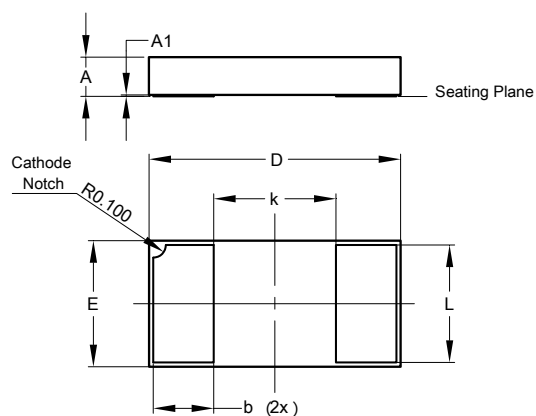
Notes: 5. Device mounted on FR-4 substrate PC board, with minimum recommended pad layout per <http://www.diodes.com/datsheets/ap02001.pdf>.
6. Short duration pulse test used to minimize self-heating effect.

Typical Electrical Characteristics



Package Outline Dimensions

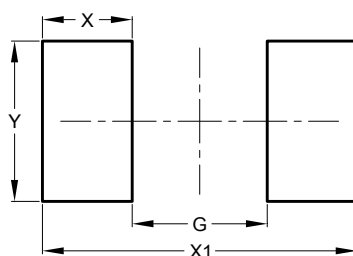
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.



X2-WLB2010-2			
Dim	Min	Max	Typ
A	–	0.305	0.290
A1	–	0.02	0.011
b	–	–	0.48
D	1.950	2.050	2.000
E	0.950	1.050	1.000
k	–	–	0.972
L	–	–	0.932
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	0.872
X	0.580
X1	2.032
Y	1.032

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