

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	80	٧
RMS Reverse Voltage	V _{R(RMS)}	57	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	lo	100	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs	I _{FSM}	2.0	Α

Thermal Characteristics

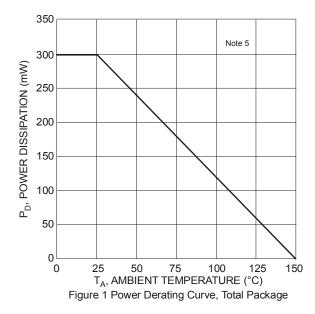
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	300	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	417	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

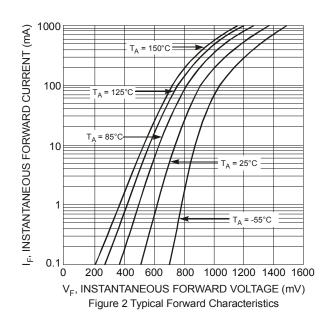
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	80	_	_	V	I _R = 100μA
Forward Voltage	V _F	_	0.61 0.73 0.90	0.715 0.855 1.20		I _F = 1.0mA I _F = 10mA I _F = 100mA
Leakage Current (Note 6)	I _R	_	_	0.1 0.5	μΑ μΑ	V _R = 30V V _R = 80V
Total Capacitance	C _T	_	0.63	3.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	_	2.0	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

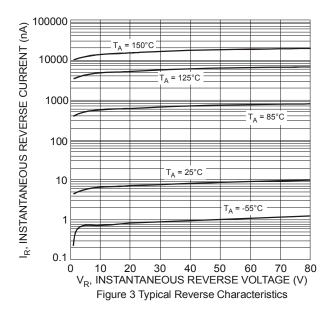
Notes:

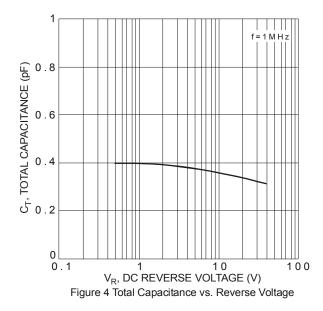
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.





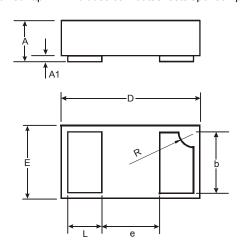






Package Outline Dimensions

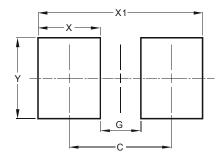
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



X2-DFN1006-2					
Dim	Min	Max	Тур		
Α	0.34	0.4	0.37		
A1	0	0.05	0.03		
b	0.45	0.55	0.50		
D	0.95	1.075	1.00		
Е	0.55	0.675	0.60		
е	_	_	0.40		
L	0.20	0.30	0.25		
R	0.05	0.15	0.10		
All	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	0.70
G	0.30
X	0.40
X1	1.10
Υ	0.70



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