

$\label{eq:maximum Ratings} \ \ (@T_A = +25^{\circ}C, \ \text{unless otherwise specified}.$

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	V
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	A

Thermal Characteristics

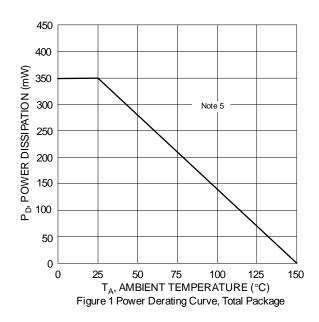
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P _D	350	mW
Thermal Resistance Junction to Ambient Air (Note 5)	R _{0JA}	357	°C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-65 to +150	°C

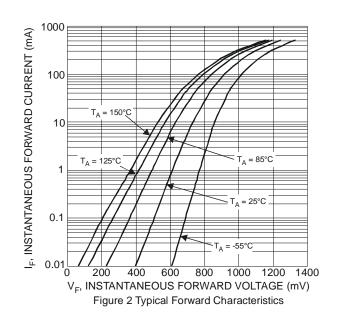
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	80	_	1	V	$I_R = 100\mu A$
Forward Voltage	VF		0.62 0.74 0.94	0.7 0.82 1.20	V	$I_F = 1.0\text{mA}$ $I_F = 10\text{mA}$ $I_F = 100\text{mA}$
Leakage Current (Note 6)	I _R		5 — —	10.0 0.1 0.2	nA μA μA	$V_R = 5V$ $V_R = 30V$ $V_R = 80V$
Total Capacitance	C _T	_	0.5	2.5	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	t _{rr}		_	4.0 4.0	ns ns	$I_F = 10mA, V_R = 6V$ $I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

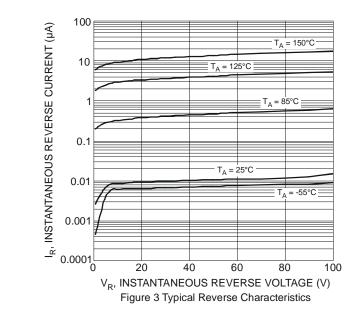
Notes:

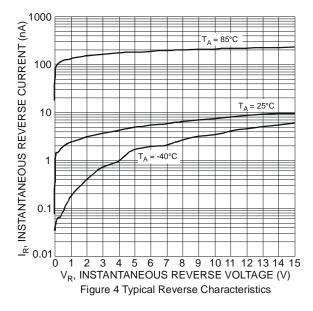
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.

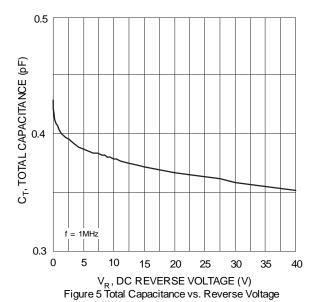








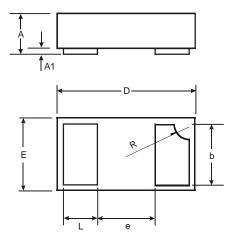






Package Outline Dimensions

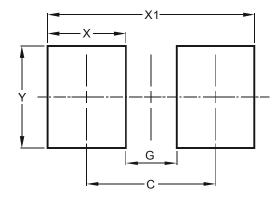
Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



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 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
Х	0.40
X1	1.10
Υ	0.70



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