

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 _{RM}	20	٧
RMS Reverse Voltage	V _{R(RMS)}	14	V
Average Rectified Output Current	lo	700	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	7	А

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

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance (Note 5)	$R_{ hetaJA}$	224	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

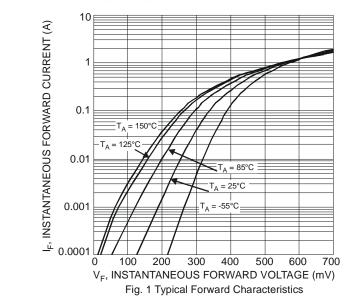
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

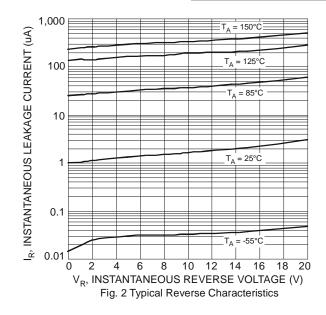
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	20	_	-	V	$I_R = 50\mu A$
Forward Voltage Drop	VF	ı	0.34 0.46 0.51 0.48	0.38 0.50 0.55 0.51	V	I _F = 0.1A, T _J = +25°C I _F = 0.5A, T _J = +25°C I _F = 0.7A, T _J = +25°C I _F = 0.7A, T _J = +125°C
Leakage Current (Note 6)	I _R	_	6 1.5	50 5	μA mA	$V_R = 20V, T_J = +25$ °C $V_R = 20V, T_J = +150$ °C

Notes: 6. Short duration pulse test used to minimize self-heating effect.

^{5.} Device mounted on FR-4 substrate with minimum recommended pad layout, which can be found on our website at http://www.diodes.com.

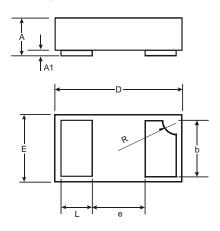






Package Outline Dimensions

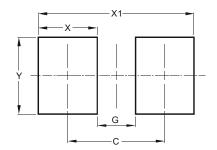
Please see AP02001 at http://www.diodes.com/_files/datasheets/ap02001.pdf for the latest version.



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/_files/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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