

Maximum Ratings (@T_A = +25°C, 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	Io	100	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs	I _{FSM}	2.0	A

Thermal Characteristics

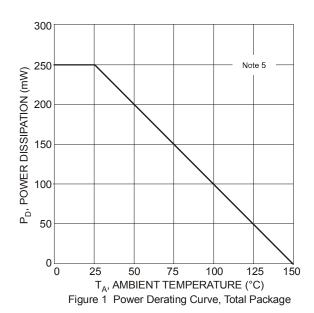
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	P_{D}	250	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ hetaJA}$	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

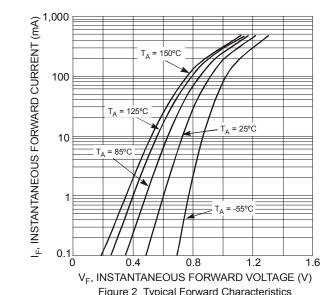
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	80			>	$I_R = 100 \mu A$
			0.61			I _F = 1.0mA
Forward Voltage	VF	_	0.75	_	V	$I_F = 10mA$
			0.95	1.23		$I_F = 100 \text{mA}$
Leakage Current (Note 6)				0.5	μA	V _R = 30V
Leakage Current (Note 6)	I _R	_	_	1.0	μA	V _R = 80V
Total Capacitance	CT		0.37	3.0	pF	$V_R = 0$, $f = 1.0MHz$
Reverse Recovery Time		_	1.7	4.0		$I_F = I_R = 10 \text{mA},$
Neverse Necovery Time	t _{rr}					$I_{rr} = 0.1 \times I_{R}, R_{L} = 100\Omega$

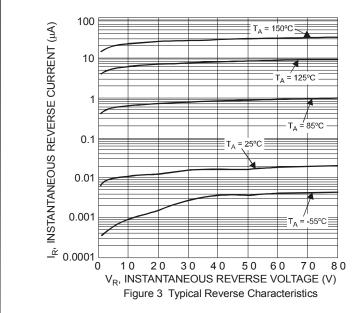
Notes:

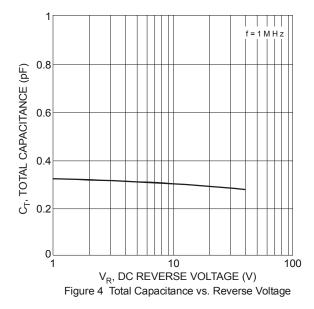
- 5. Part mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.





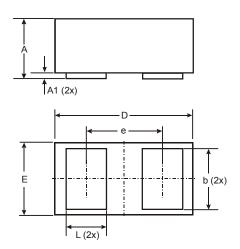






Package Outline Dimensions

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

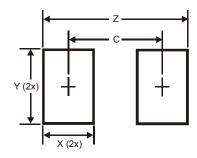


X3-DFN0603-2				
Dim	Min	Max	Тур	
Α	0.27	0.35	0.30	
A1	0.00	0.03	0.02	
b	0.19	0.29	0.24	
D	0.595	0.645	0.62	
Е	0.295	0.345	0.32	
е	-	-	0.355	
L	0.14	0.24	0.19	
All Dimensions in mm				

Bottom View

Suggested Pad Layout

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



Dimensions	Value (in mm)
С	0.380
X	0.230
Υ	0.300
Z	0.610



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