

### **Maximum Ratings** @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	85	V	
RMS Reverse Voltage		V <sub>R(RMS)</sub>	60	V	
Forward Continuous Current (Note 5)		I <sub>FM</sub>	215	mA	
Repetitive Peak Forward Current		I <sub>FRM</sub>	500	mA	
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0ms @ t = 1.0s	I <sub>FSM</sub>	4.0 1.0 0.5	A	

## **Thermal Characteristics**

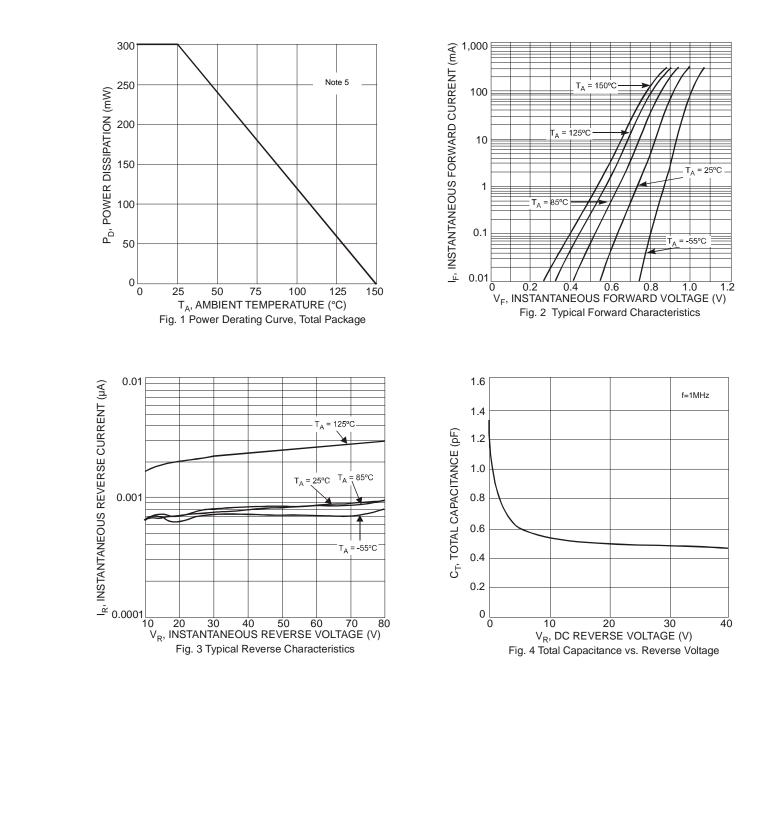
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	PD	300	mW
Thermal Resistance Junction to Ambient Air (Note 5)	$R_{ extsf{ heta}JA}$	417	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V <sub>(BR)R</sub>	85			V	I <sub>R</sub> = 100μA
Forward Voltage	V <sub>F</sub>			0.9 1.0 1.1 1.25	V	$I_{F} = 1.0mA$ $I_{F} = 10mA$ $I_{F} = 50mA$ $I_{F} = 150mA$
Leakage Current (Note 6)	I <sub>R</sub>	_	_	5.0 80	nA nA	V <sub>R</sub> = 75V V <sub>R</sub> = 75V, T <sub>J</sub> = 150°C
Total Capacitance	CT	_	1.5		pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	_	_	3.0	μs	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

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

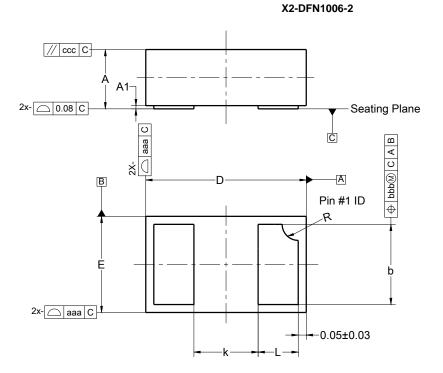






### **Package Outline Dimensions**

Please see http://www.diodes.com/package-outlines.html for the latest version.

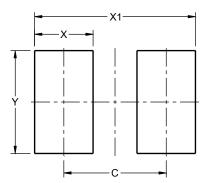


	X2-DFN1006-2					
Dim	Min	Max	Тур			
Α	0.34	0.40	0.37			
A1	0.00	0.05	0.03			
b	0.45	0.55	0.50			
D	0.95	1.075	1.00			
Е	0.55	0.675	0.60			
k			0.40			
L	0.20	0.30	0.25			
R	_		0.10			
aaa	<b>iaa</b> 0.15					
bbb	0.05					
CCC	0.05					
All	All Dimensions in mm					

# Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.

#### X2-DFN1006-2



Dimensions	Value (in mm)
С	0.70
Х	0.40
X1	1.10
Y	0.70



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