

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive 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 _R	1,000	V
RMS Reverse Voltage	V _{R(RMS)}	700	V
Average Rectified Output Current @ T _C = +110°C	Io	1.5	Α
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	70	Α
Non-Repetitive Peak Forward Surge Current, 1.0ms Single Half Sine-Wave Superimposed on Rated Load		140	Α
I ² t Rating for Fusing (1ms < t < 8.3ms)		20.33	A ² S

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 5)	$R_{\theta JA}$	50	°C/W
Typical Thermal Resistance, Junction to Case	$R_{\theta JC}$	10	°C/W
Typical Thermal Resistance, Junction to Lead	R ₀ JL	15	°C/W
Operating and Storage Temperature Range	T _{J,} T _{STG}	-55 to +150	°C

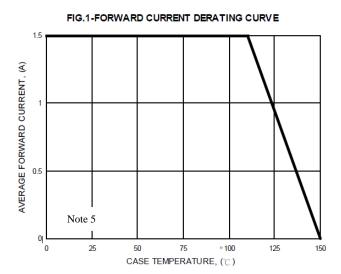
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	$V_{(BR)R}$	1,000	-	-	V	$I_R = 5\mu A$
Forward Voltage	V _F	1111	— 0.77 — 0.94	1.02 — 1.1 —	٧	$\begin{split} I_F &= 0.75\text{A}, T_A = +25^{\circ}\text{C} \\ I_F &= 0.75\text{A}, T_A = +125^{\circ}\text{C} \\ I_F &= 1.5\text{A}, T_A = +25^{\circ}\text{C} \\ I_F &= 1.5\text{A}, T_A = +125^{\circ}\text{C} \end{split}$
Leakage Current (Note 6)	I _R			5 500	μA	V _R = 1000V, T _A = +25°C V _R = 1000V, T _A = +125°C
Total Capacitance (Note 7)	C _T	_	25	_	pF	$V_R = 4V$, $f = 1.0MHz$

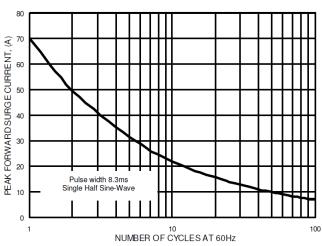
Notes:

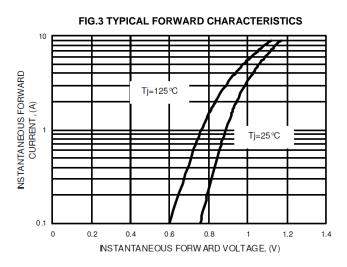
- 5. Device mounted on glass-epoxy substrate with 1oz 20mm x 20mm Cu pad per pin.6. Short duration pulse test used to minimize self-heating effect.7. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



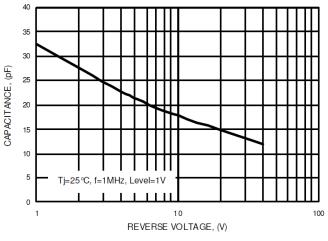


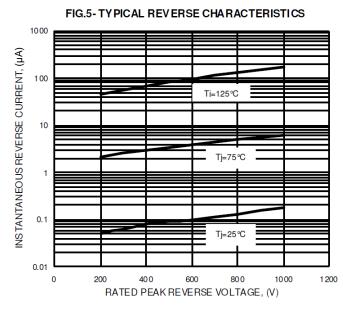


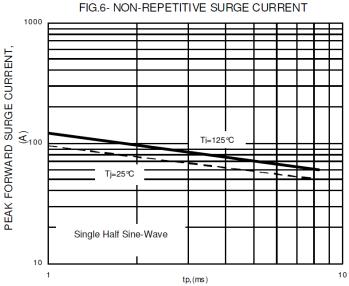








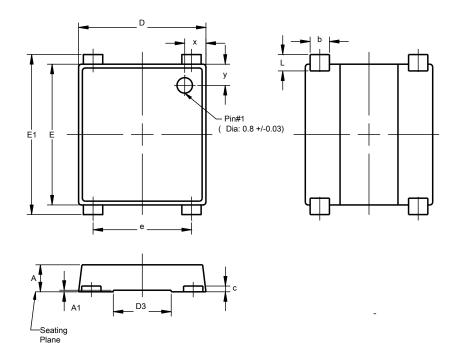






Package Outline Dimensions

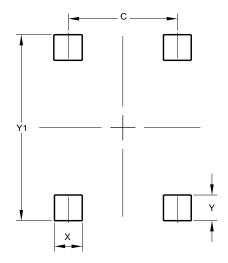
Please see http://www.diodes.com/package-outlines.html for the latest version.



MSBL					
Dim	Min	Max	Тур		
Α	1.30	1.50	1.40		
A1	0.04	0.08	0.06		
b	0.95	1.15	1.00		
С	0.27	0.40	0.30		
D	6.50	6.70	6.60		
D3	2.90	3.10	3.00		
Е	7.20	7.40	7.30		
E1	7.90	8.60	8.30		
е	5.00	5.20	5.10		
L	0.65	1.05	0.85		
х	0.95	1.25	1.10		
У	0.95	1.25	1.10		
All Dimensions in mm					

Suggested Pad Layout

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



Dimensions	Value (in mm)
С	5.10
Х	1.30
Υ	1.20
Y1	8.70



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