

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	HD01	HD02	HD04	HD06	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RMM} V _{RWM} V _{DC}	100	200	400	600	>
RMS Reverse Voltage	V_{RMS}	70	140	280	420	V
Average Forward Rectified Current (Note 4) @T _A = +40°C	lo		0	.8		Α
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	30		Α		

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 4)	$R_{ heta JA}$	75	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

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

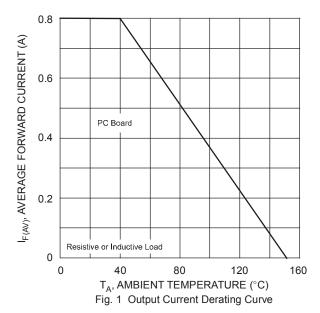
Characteristic	Symbol	Value	Unit
Instantaneous Voltage Drop @ 0.4A (Per Element)	V_{F}	1.0	V
Peak Reverse Current at Rated @T _A = +25°C		5.0	пΛ
DC Blocking Voltage (Per Element) @T _A = +125°C	IR	500	μΑ
Typical Total Capacitance (Per Element) (Note 5)	C _T	10	pF

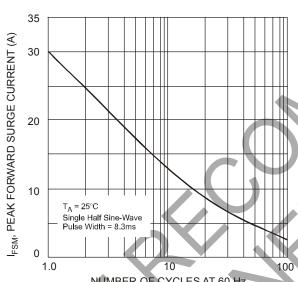
Notes:

- 4. Mounted on PC Board.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V.

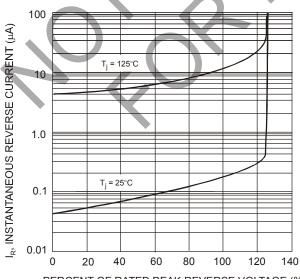




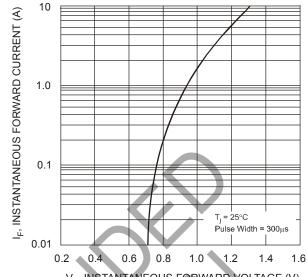




NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics (per element)



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per element)

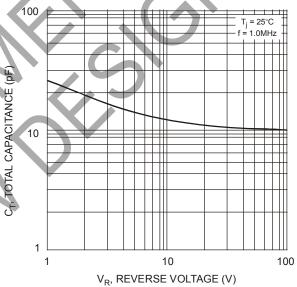


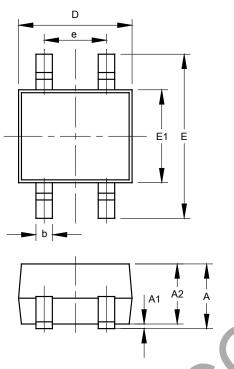
Fig. 4 Typical Total Capacitance (per element)



Package Outline Dimensions

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

MiniDIP



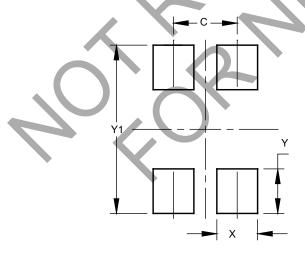
L A	A2a	 - -
		<u> </u>
	<u>c</u>	$ \langle \langle \langle \rangle $

MiniDIP					
Dim	Min	Max			
Α		3.00			
A1		0.20			
A2	2.30	2.70			
A2a	1.20	1.60			
b	0.50	0.80			
С	0.15	0.35			
D	4.50	4.90			
Е		7.00			
E1	3.60	4.00			
е	2.30	2.70			
Ĺ	0.70	1.10			
L1	1.10	2.12			
All Dimensions in mm					

Suggested Pad Layout

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

MiniDIP



Dimensions	Value (in	
Dillielisions	mm)	
C	2.50	
Х	1.65	
Υ	1.80	
Y1	6.80	



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 - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
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