

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	V _{RMM}					
Working Peak Reverse Voltage	V _{RWM}	100	200	400	600	V
DC Blocking Voltage	V _{DC}					
RMS Reverse Voltage	V _{RMS}	70	140	280	420	V
Average Forward Rectified Current (Note 4) @T _A = +40°C	I _O	0.8				A
Non-Repetitive Peak Forward Surge Current, 8.3ms	I _{FSM}	30				A
Single Half Sine-Wave Superimposed on Rated Load						

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 4)	R _{θJA}	75	°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	Value	Unit
Instantaneous Voltage Drop @ 0.4A (Per Element)	V _F	1.0	V
Peak Reverse Current at Rated @T _A = +25°C	I _R	5.0	μA
DC Blocking Voltage (Per Element) @T _A = +125°C		500	
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.

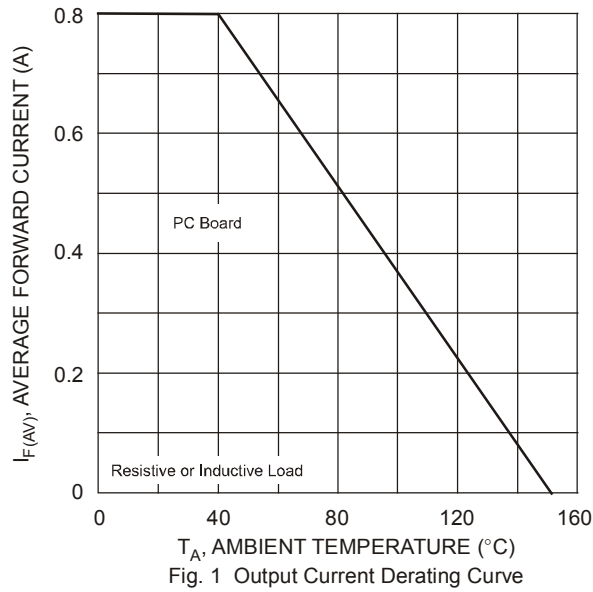


Fig. 1 Output Current Derating Curve

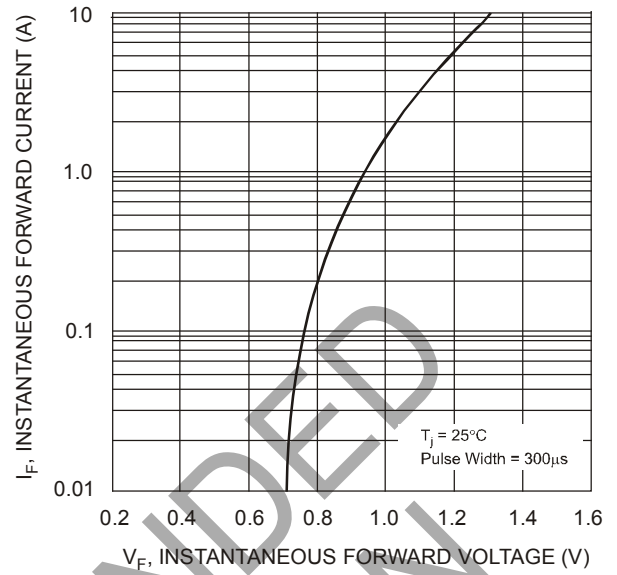


Fig. 2 Typical Forward Characteristics (per element)

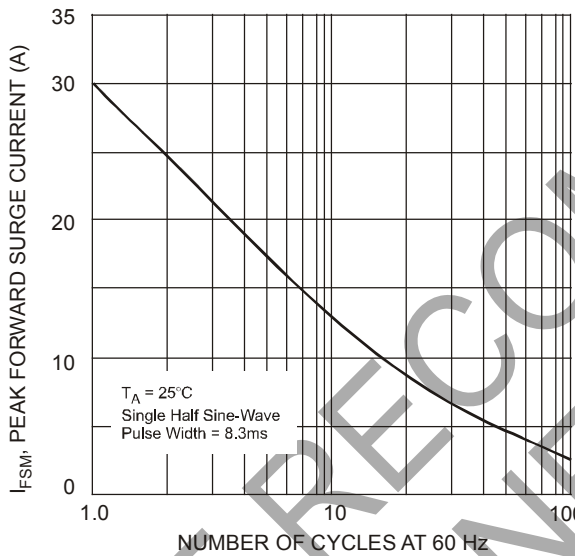


Fig. 3 Maximum Peak Forward Surge Current (per element)

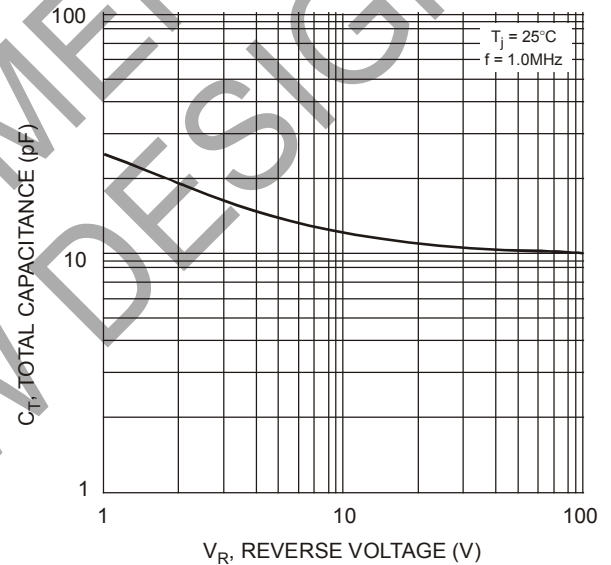


Fig. 4 Typical Total Capacitance (per element)

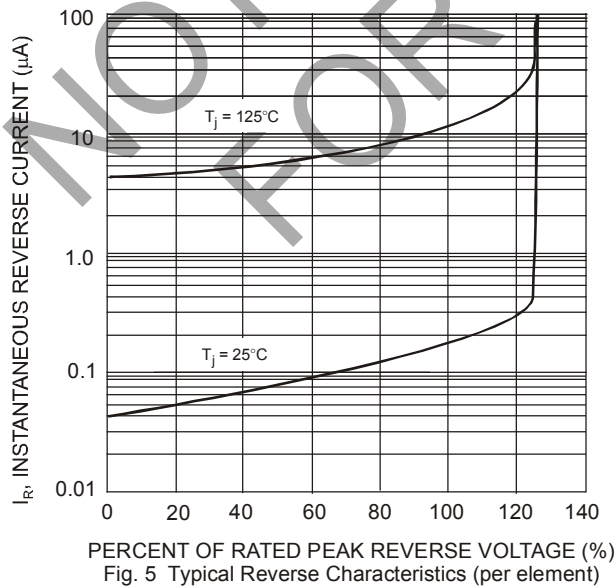
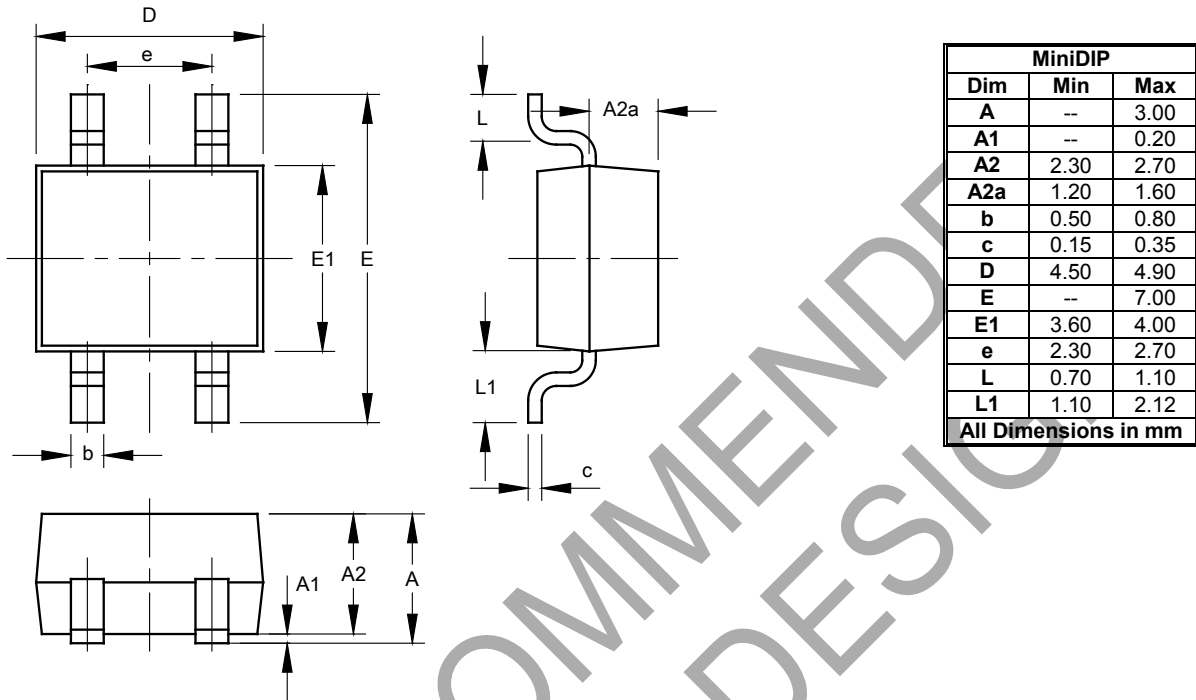


Fig. 5 Typical Reverse Characteristics (per element)

Package Outline Dimensions

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

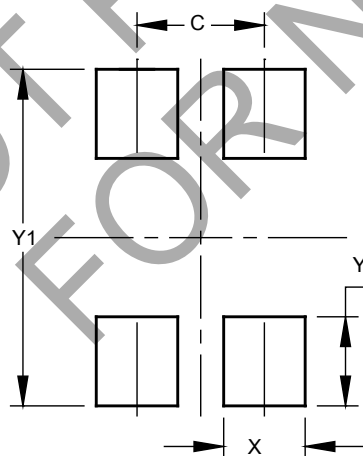
MiniDIP



Suggested Pad Layout

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

MiniDIP



Dimensions	Value (in mm)
C	2.50
X	1.65
Y	1.80
Y1	6.80

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