

**Maximum Ratings** (@T<sub>A</sub> = +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 <sub>RMM</sub> |      |      |      |      |      |
| Working Peak Reverse Voltage                                       | V <sub>RWM</sub> | 100  | 200  | 400  | 600  | V    |
| DC Blocking Voltage                                                | V <sub>DC</sub>  |      |      |      |      |      |
| RMS Reverse Voltage                                                | V <sub>RMS</sub> | 70   | 140  | 280  | 420  | V    |
| Average Forward Rectified Current (Note 4) @T <sub>A</sub> = +40°C | I <sub>O</sub>   | 0.8  |      |      |      | A    |
| Non-Repetitive Peak Forward Surge Current, 8.3ms                   | I <sub>FSM</sub> | 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 <sub>θJA</sub>                  | 75          | °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         | Value | Unit |
|------------------------------------------------------------|----------------|-------|------|
| Instantaneous Voltage Drop @ 0.4A (Per Element)            | V <sub>F</sub> | 1.0   | V    |
| Peak Reverse Current at Rated @T <sub>A</sub> = +25°C      | I <sub>R</sub> | 5.0   | μA   |
| DC Blocking Voltage (Per Element) @T <sub>A</sub> = +125°C |                | 500   |      |
| Typical Total Capacitance (Per Element) (Note 5)           | C <sub>T</sub> | 10    | pF   |

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

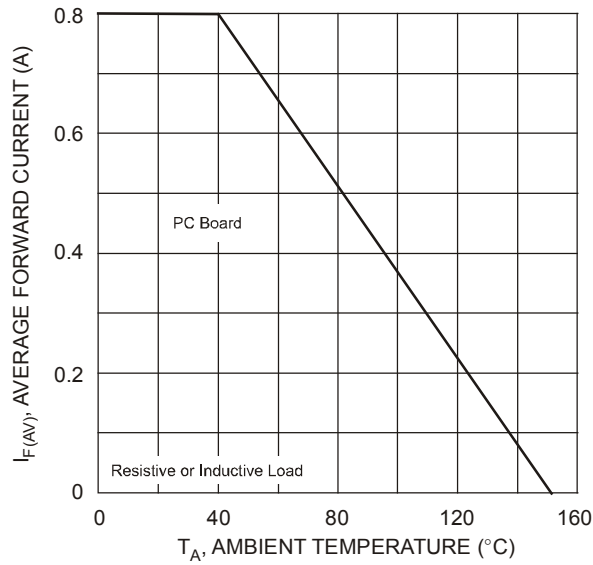


Fig. 1 Output Current Derating Curve

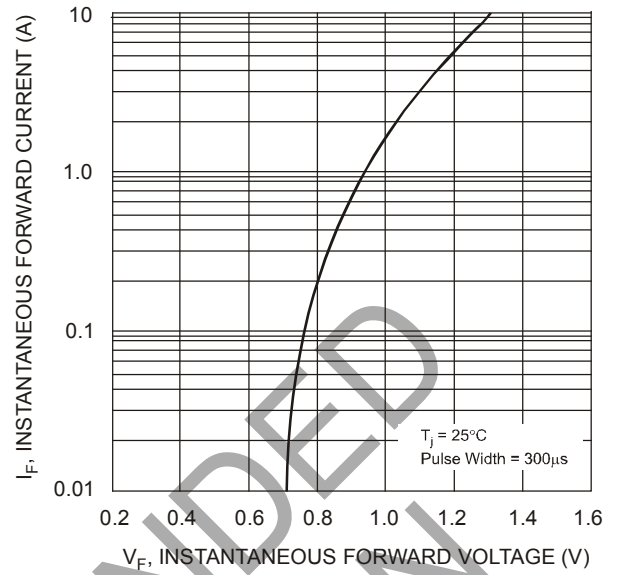


Fig. 2 Typical Forward Characteristics (per element)

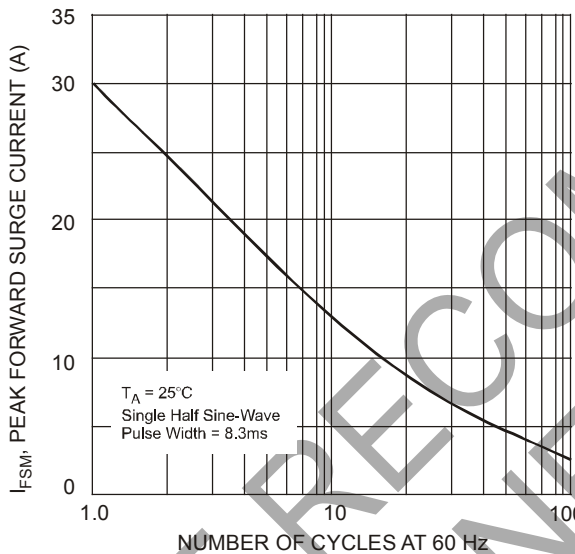


Fig. 3 Maximum Peak Forward Surge Current (per element)

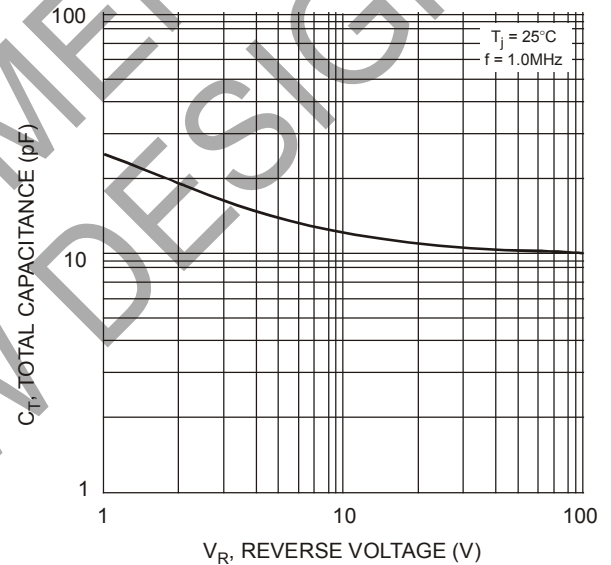


Fig. 4 Typical Total Capacitance (per element)

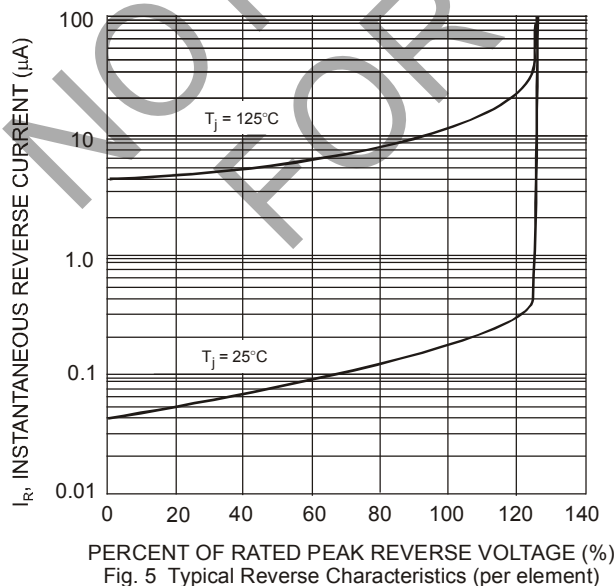
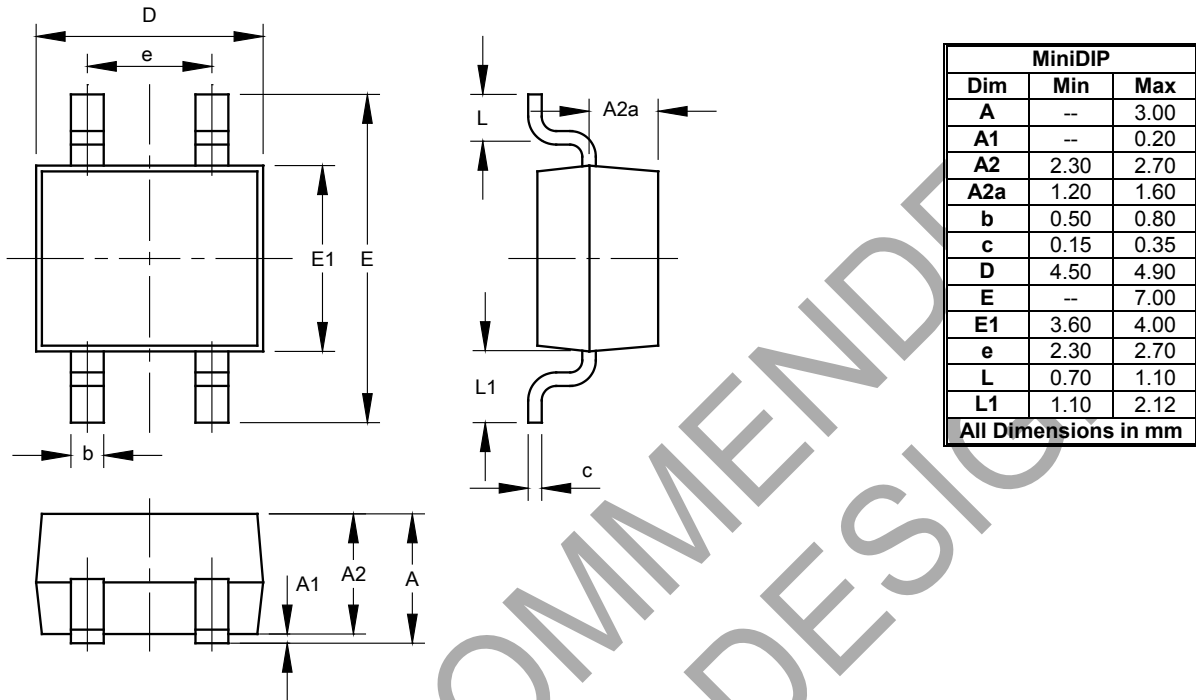


Fig. 5 Typical Reverse Characteristics (per element)

## Package Outline Dimensions

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

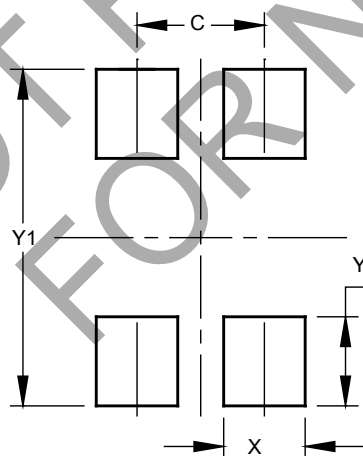
### MiniDIP



## 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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