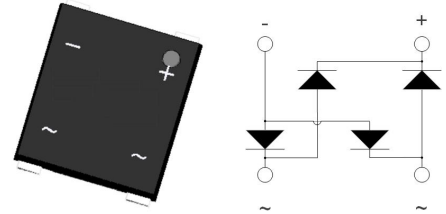


### Features

- ◆ Glass Passivated Chip
- ◆ Fast Reverse Recovery Time
- ◆ High Surge Current Capability
- ◆ Low Reverse Leakage Current
- ◆ Case to Terminal Isolation Voltage 2500V

### Application

- ◆ Fast Charger
- ◆ Household Electric Appliances
- ◆ General Purpose Single-Phase Bridge Rectifier



### Mechanical Data

- ◆ Case: Plastic Package
- ◆ Marking / Polarity: Marked on Body
- ◆ Weight: About 0.24 Grams

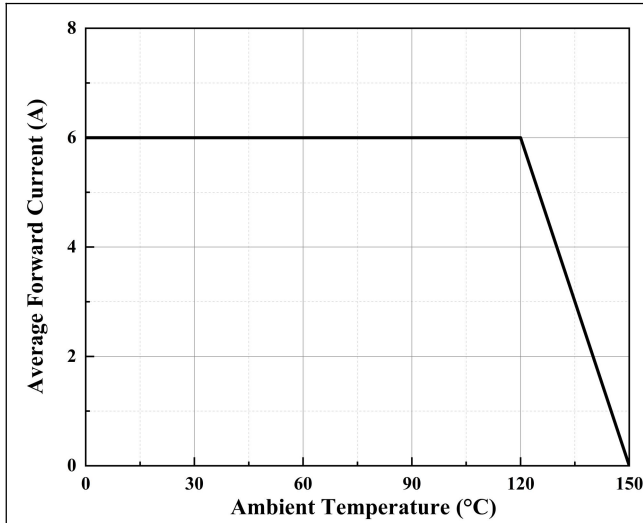
### Maximum Ratings and Thermal Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter		Rating	Unit
$V_{RRM}$	Recurrent Peak Reverse Voltage		1000	V
$I_{F(AV)}$	Average Forward Output Rectified Current, $T_A = 120^\circ\text{C}$		6.0	A
$V_F$	Forward Voltage Per Leg, $I_{FM} = 6.0\text{A}$		1.3	V
$I_{FSM}$	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		135	A
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	5.0	$\mu\text{A}$
		$T_A = 125^\circ\text{C}$	500	
$T_{rr}$	Maximum Reverse Recovery Time		500	nS
$i^2t$	Rating for Fusing ( $t < 8.3\text{ms}$ )		75.6	$\text{A}^2\text{S}$
$V_{isol}$	Rms Isolation Voltage from Case to Leads		2500	V
$C_J$	Typical Junction Capacitance		42	pF
$R_{\theta JC}$	Maximum Thermal Resistance Per Leg		4.2	$^\circ\text{C/W}$
$T_J, T_{STG}$	Operating Junction and Storage Temperature Range		-55 to 150	$^\circ\text{C}$

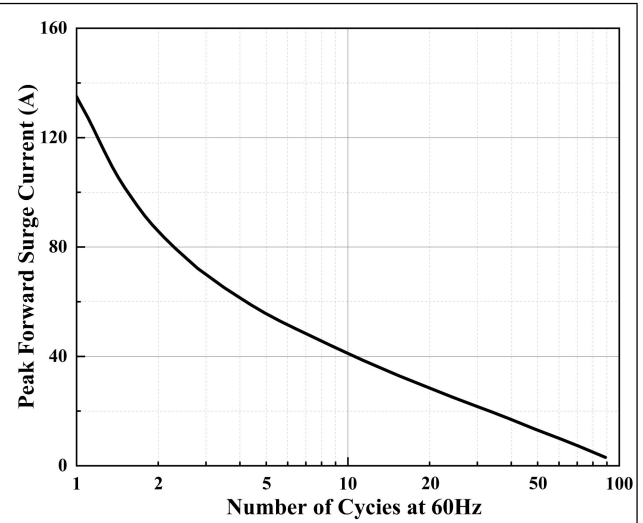
#### Notes:

- a. Junction to case with heatsink.
- b. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

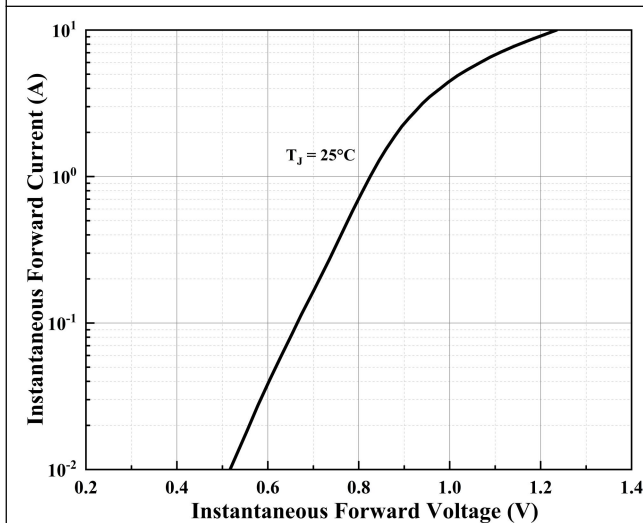
### ■ Characteristic Curve



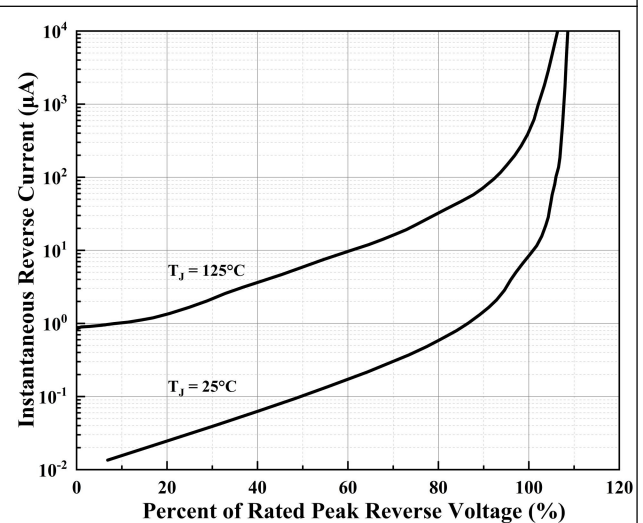
**Figure 1. Forward Current Derating Curve**



**Figure 2. Maximum Non-Repetitive Surge Current**



**Figure 3. Typical Forward Characteristics Per Diode**



**Figure 4. Typical Reverse Leakage Characteristics Per Diode**

### ■ Package Information

