

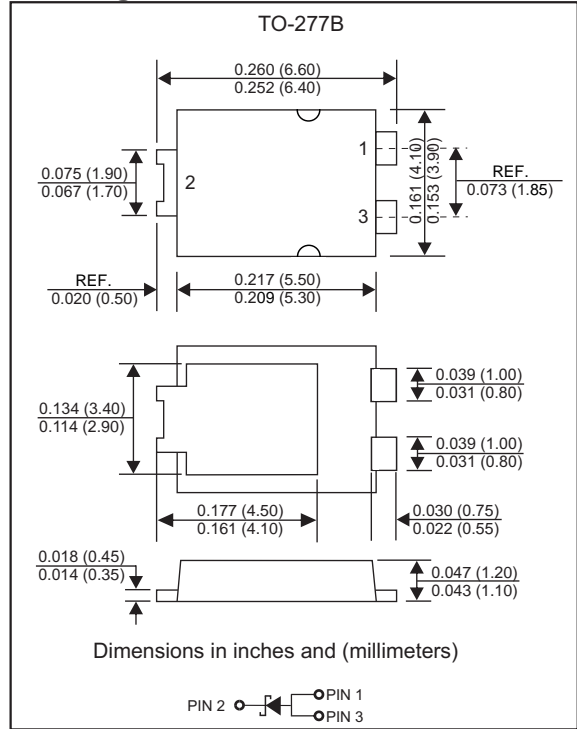
### Features

- Ideal for automated placement
- Low power losses
- High forward surge capability
- Compliant to Halogen-free

### Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : TO-277B ,molded Plastic
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:SL1560

### Package outline



### Maximum ratings (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Average Rectified Output Current @ 60Hz -sine wave, R- load	$I_O$	15	A
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, $T_A=25^\circ\text{C}$	$I_{FSM}$	275	A
Storage Temperature	$T_{stg}$	-55 ~+150	$^\circ\text{C}$
Operating Junction Temperature	$T_j$	-55 ~+150	$^\circ\text{C}$

### Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	Min	Typ	Max	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 15.0A, T_j=25^\circ\text{C}$	-	0.52	0.55	V
Reverse Breakdown Voltage	$V_{BR}$	$I_R=0.5mA, T_j=25^\circ\text{C}$	60	-	-	V
Leakage Current	$I_R$	$V_R=60V, T_j=25^\circ\text{C}$	-	-	0.3	mA
		$V_R=60V, T_j=125^\circ\text{C}$	-	-	50	

Note1:Pulse test:300uS pulse width, 1% duty cycle

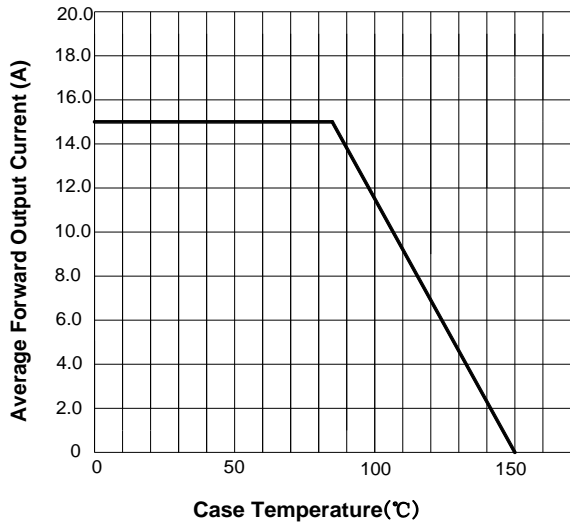
Note2:Pulse test:pulse width 40mS

### Thermal Characteristics

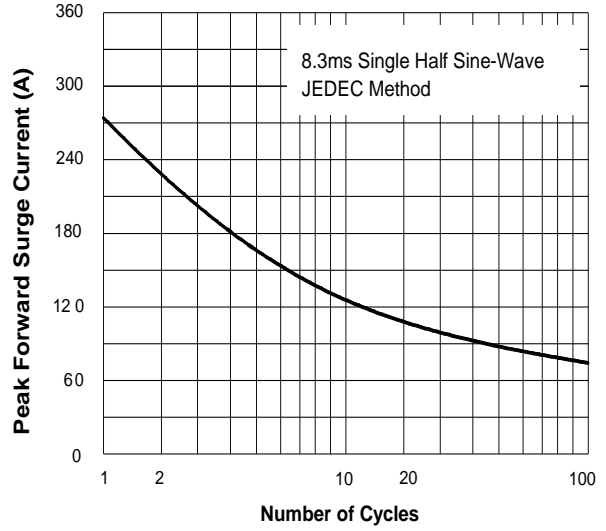
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance Junction to Ambient	$R_{\theta J-A}$	30	$^\circ\text{C}/\text{W}$
Thermal Resistance Junction to Case	$R_{\theta J-C}$	8	$^\circ\text{C}/\text{W}$

## Rating and characteristic curves

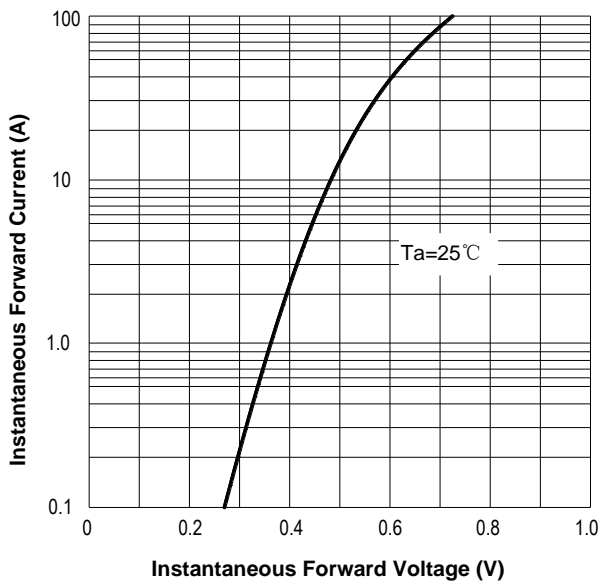
**FIG.1:  $I_o$ - $T_c$  Curve**



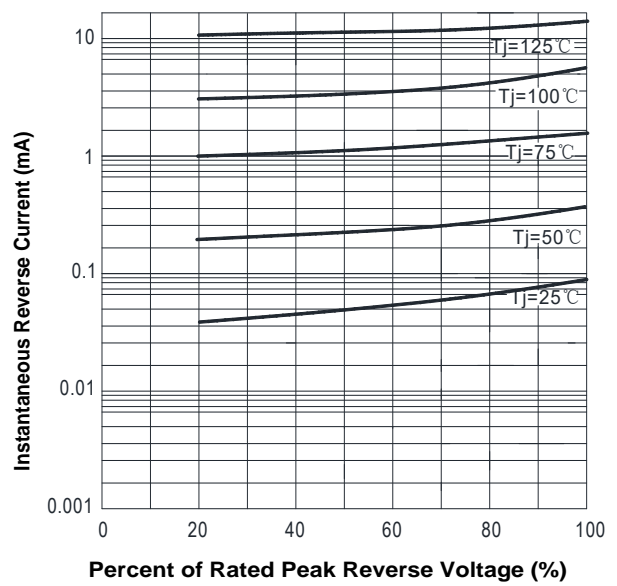
**FIG.2: Forward Surge Current Capability**



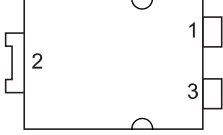
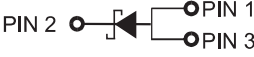
**FIG.3: Forward Voltage**



**FIG.4: Typical Reverse Characteristics**



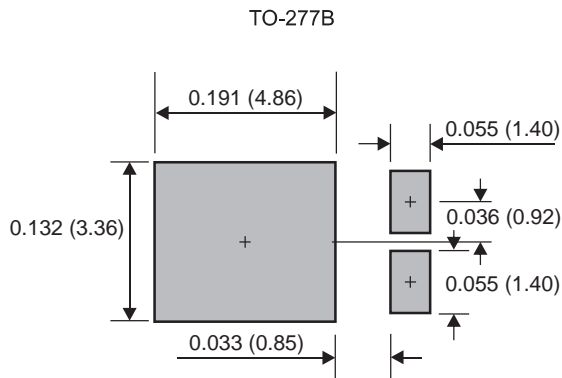
### Pinning information

Pin	Simplified outline	Symbol
Pin2 cathode Pin1 anode Pin3 anode		

### Marking

Type number	Marking code
SL1560Y-T	SL1560

### Suggested solder pad layout



Dimensions in inches and (millimeters)