

### Features

- Ultra Low Forward Voltage Drop .
- Very low profile-typical height of 1.10mm
- Low Power Losses,High Efficiency Operation
- Low Thermal Resistance Package.
- High Operating Junction Temperature.
- Compliant to Halogen-free.

### Mechanical data

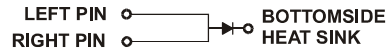
- Epoxy:UL94-V0 rated flame retardant
- Case : TO-277 , molded Plastic
- Terminals:Solderable per MIL-STD-750,Method 2026

### TO-277



Top View

Bottom View



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

Parameter	Symbol	SP1060L	Unit
DC Blocking Voltage Working Peak Reverse Voltage Repetitive Peak Reverse Voltage	$V_{DC}$ $V_{RWM}$ $V_{RRM}$	60	V
RMS Reverse Voltage	$V_{RMS}$	42	V
Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak Forward Surge Current,8.3ms Half Sine-wave( $T_A=25^{\circ}\text{C}$ )	$I_{FSM}$	280	A
Operating junction temperature range	$T_J$	-55 to +150	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

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

Parameter	Test Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Reverse Breakdown Voltage	$T_J=25^{\circ}\text{C}$	$V_B$	60	-	-	V
Forward voltage	$I_F=10\text{A}, T_J=25^{\circ}\text{C}$	$V_F$		0.47	0.52	V
	$I_F=10\text{A}, T_J=125^{\circ}\text{C}$			0.4	0.45	
Reverse current	$T_J=25^{\circ}\text{C}$	$I_R$			0.1	mA
	$T_J=125^{\circ}\text{C}$				15	

### Thermal Characteristics

Parameter	Symbol	SP1060L	Unit
Typical thermal resistance junction to ambient ,Note 1	$R_{\theta JA}$	80	$^{\circ}\text{C}/\text{W}$
Typical thermal resistance junction to lead, Note 2	$R_{\theta JA}$	25	$^{\circ}\text{C}/\text{W}$

Note : 1.FR-4 PCB, 2oz.Copper.

2.Polyimide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.

**Rating and characteristic curves**

Fig.1 - Forward Current Derating Curve

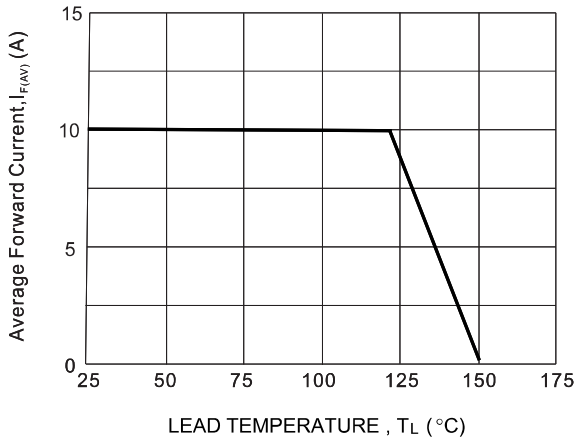


Fig. 2 Typical Forward Characteristics (per leg)

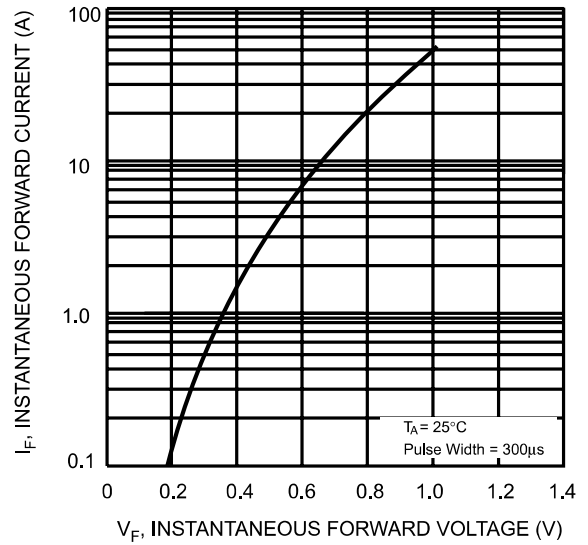


Fig. 3 Maximum Peak Forward Surge Current (per leg)

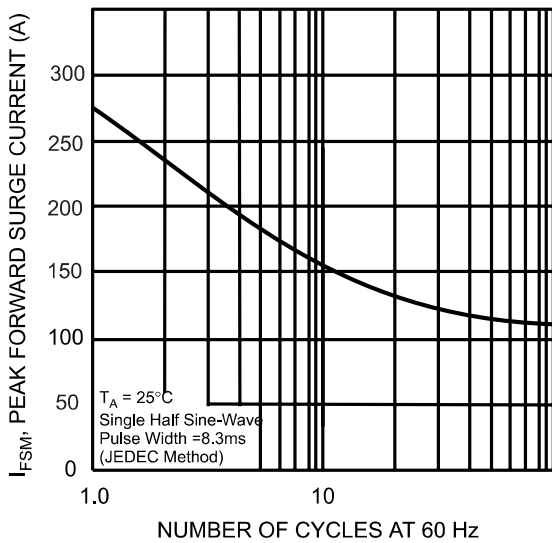
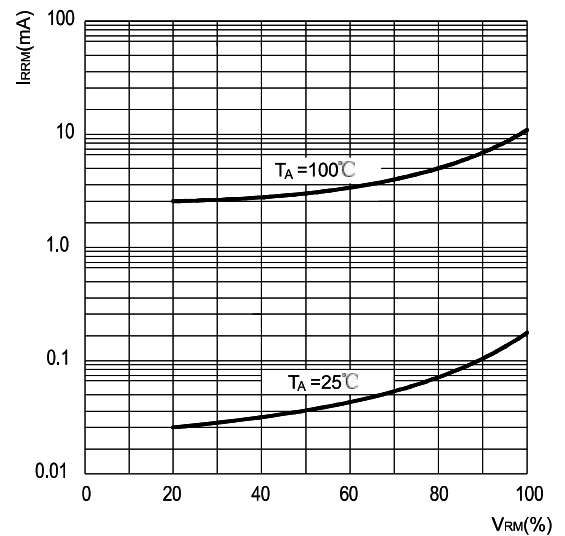

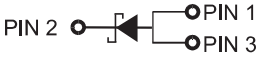



Fig4: Typical Reverse Characteristics



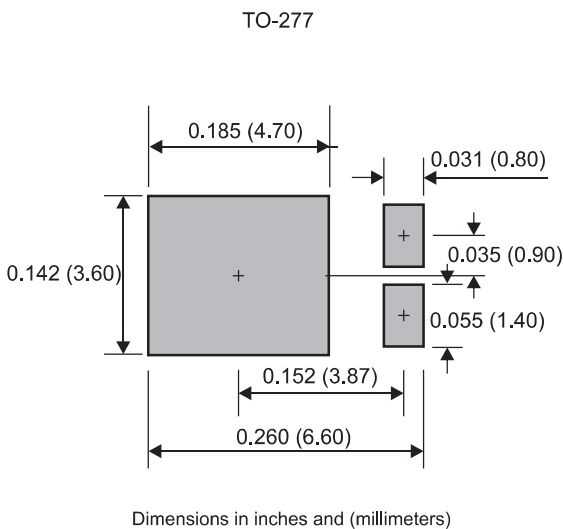
**Pinning information**

Pin	Simplified outline	Symbol
Pin2 cathode Pin1 anode Pin3 anode		

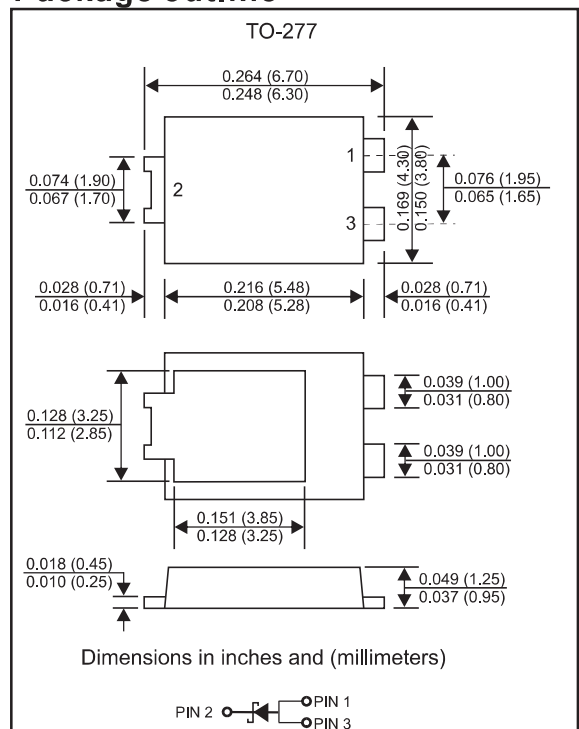
**Marking**

Type number	Marking code
SP1060L	

**Suggested solder pad layout**



**Package outline**



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