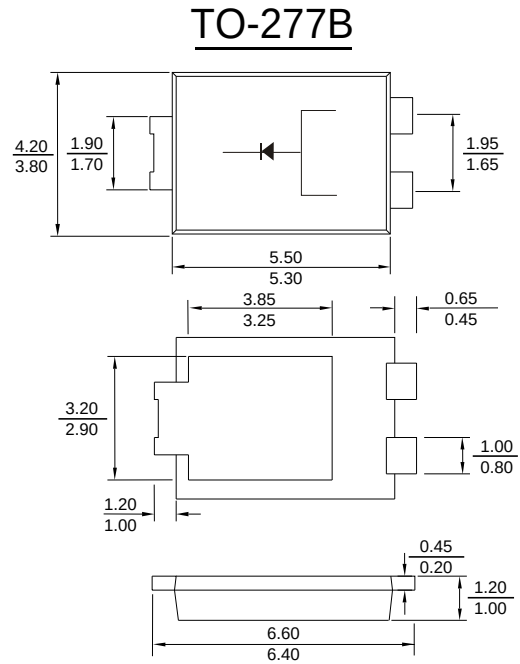
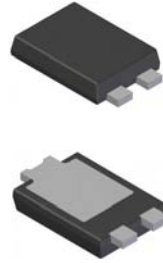


Features

- Schottky Barrier Chip
- Bypass Diodes for Solar Panels
- High Junction Temperature
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability

Mechanical Data

- Case: TO-277B Molded Plastic "Green" Molding Compound
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.093 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics @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	SL20T80L	SL20T100L	SL20T120L	SL20T150L	SL20T200L	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	80	100	120	150	200	V
Working Peak Reverse Voltage	V _{RWM}						
DC Blocking Voltage	V _R						
RMS Reverse Voltage	V _{R(RMS)}	56	70	84	105	140	V
Average Rectified Output Current @T _L = 100°C (Note 1)	I _O	20					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300					A
I ² t Rating for Fusing (t<8.3ms)	I ² t	259.4					A ² s
Forward Voltage Drop T _A = 25°C @I _F = 1.0A T _A = 25°C @I _F = 5.0A T _A = 25°C @I _F = 10A T _A = 25°C @I _F = 20A	V _{FM}		Typ. 0.37 Max. 0.45 0.51 0.61	- - 0.63 0.66	Typ. 0.43 Max. 0.60 0.67 0.75	- - - 0.85	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.3 15					mA
Typical Thermal Resistance (Note 1)	R _{θJA}	110					°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150					°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. FR-4 PCB, 2oz. Copper, minimum recommended pad layout .

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

FIG.1 - FORWARD CURRENT DERATING CURVE

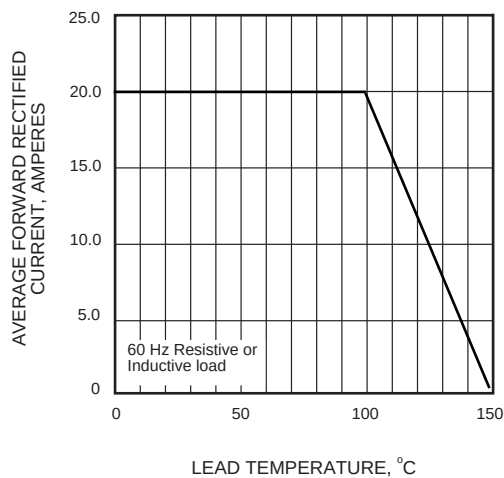


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

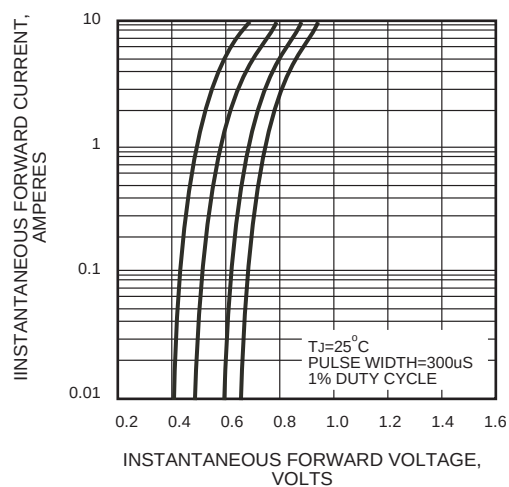


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

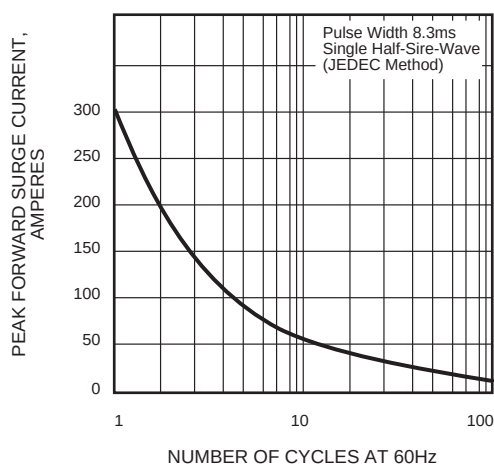


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

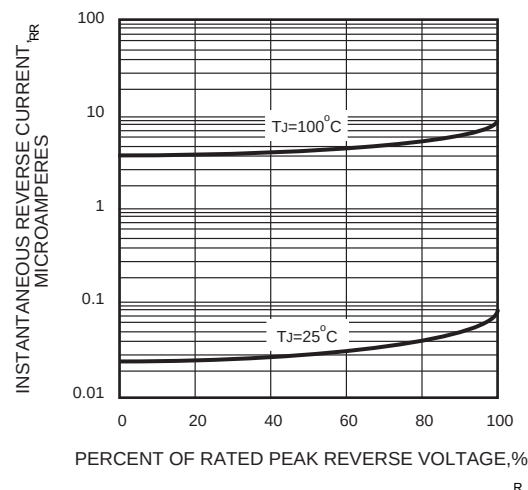


FIG.5 - TYPICAL JUNCTION CAPACITANCE

