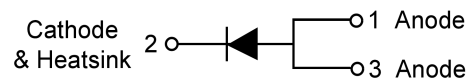
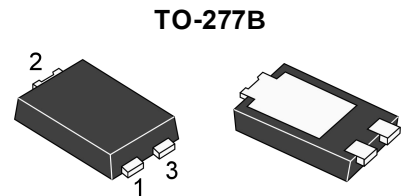


Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: TO-277B, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

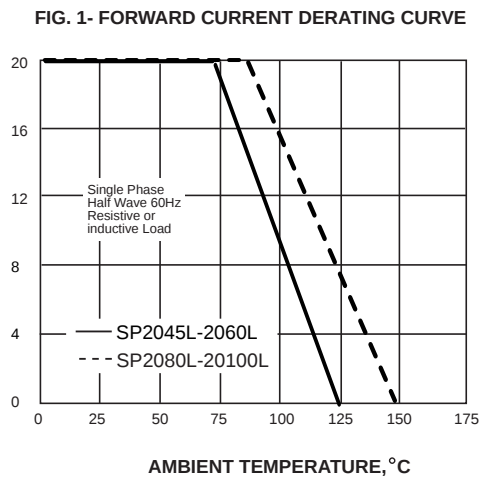
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SB 2045L	SB 2050L	SB 2060L	SB 2080L	SB 20100L	UNITS
Maximum repetitive peak reverse voltage	V _{RMM}	45	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	32	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	45	50	60	80	100	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	20.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}	250.0					A
Maximum instantaneous forward voltage at20.0A	V _F	0.485	0.59		0.66		V
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	I _R	0.15					mA
		15.0					
Typical junction capacitance (NOTE 1)	C _J	80					pF
Typical thermal resistance (NOTE 2)	R _{θJA}	15.0					℃/W
Operating junction and storage	T _J	-65 to +125			-65 to +150		℃
Storage temperature range	T _{STG}	-65 to +150					℃

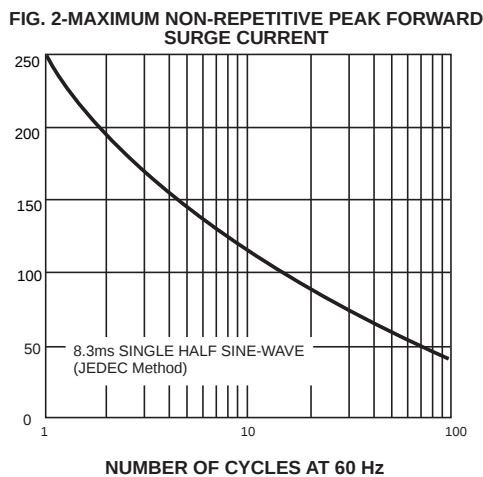
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

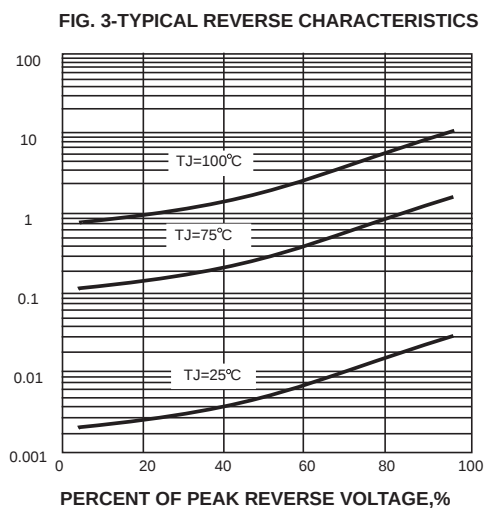
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



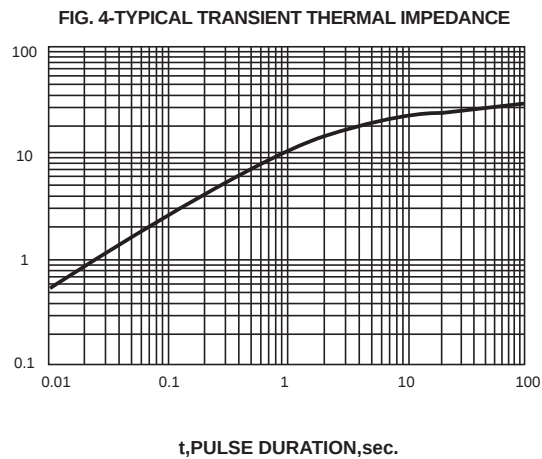
PEAK FORWARD SURGE CURRENT,
AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

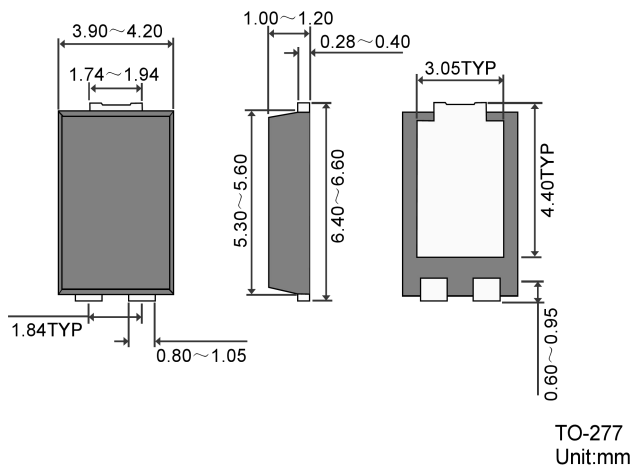


TRANSIENT THERMAL IMPEDANCE,
°C/W

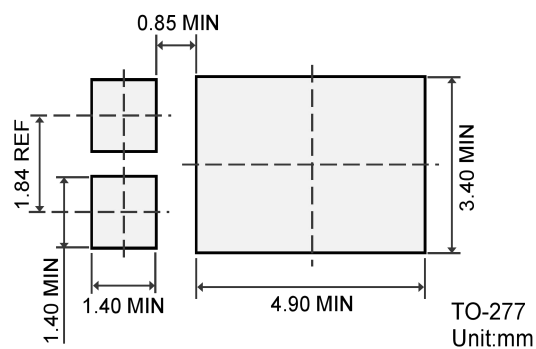


Package Outline Dimensions & Suggested Solder Pad Layout

Package Outline Dimensions



Suggested Solder Pad Layout



Packing Information

Packaging	Package	Reel Quantity	Reel Size	Tape Size
Reel	TO-277B	5000 pcs	13'	12 mm

