

VOLTAGE RANGE: 40 - 100V

CURRENT: 15 A

Features

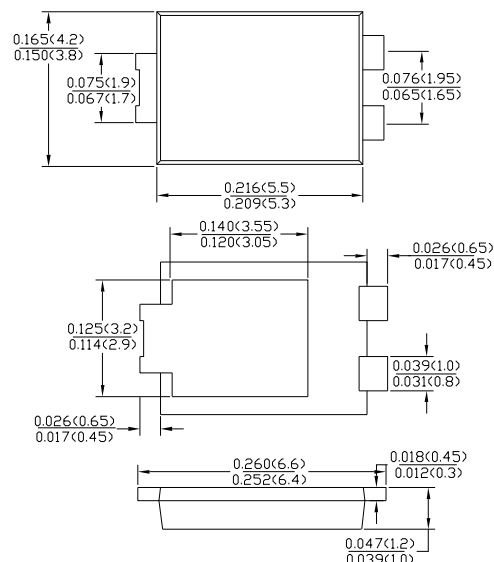
- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low forward voltage drop
- High forward surge current capability
- High temperature soldering guaranteed
250°C/10 seconds at terminals

Mechanical Data

- Case: TO-277 Molded Plastic
- 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



T0-277



Dimensions inches and (millimeters)

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Parameter	SYMBOLS	SB1540L	SB1545L	SB1550L	SB1560L	SB1580L	SB15100L	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	40	45	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	28	31.5	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	40	45	50	60	80	100	V
Maximum average forward rectified current at T _L =100°C	I _(AV)	15.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250.0						A
Maximum instantaneous forward voltage at 2.0A at 15.0A	V _F	0.35 0.48			0.40 0.55	0.45 0.70		V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	0.5 50				0.2 20		mA
Typical thermal resistance	R _{qJA}	60.0						°C/W
Operating junction temperature range	T _J	-55 to +150						°C
Storage temperature range	T _{STG}	-55 to +150						°C

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

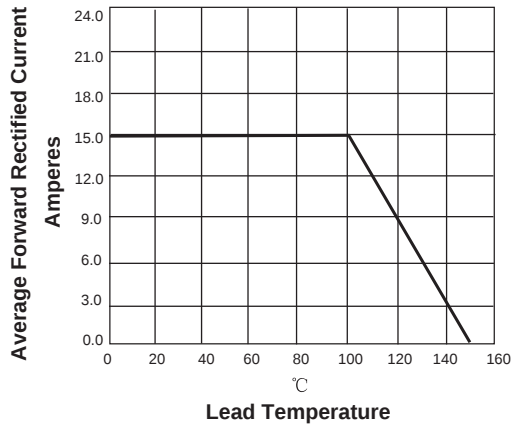


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

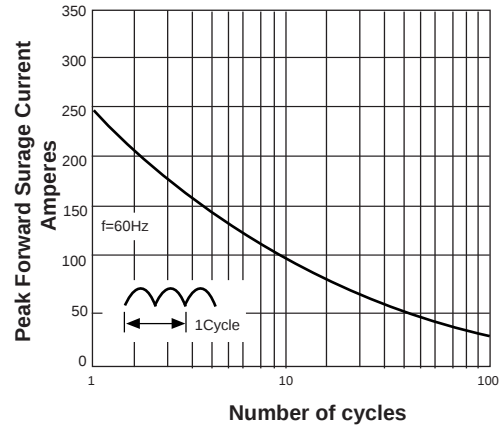


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

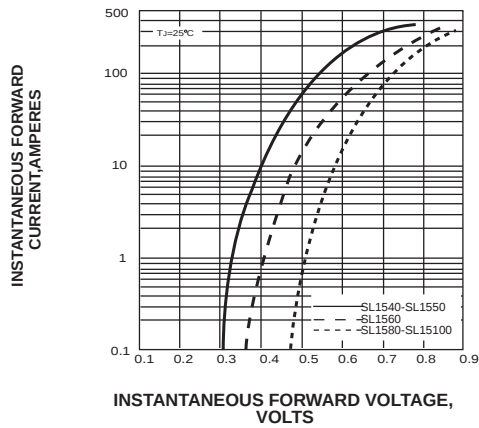


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

