

SL1520~SL15200

15.0Amp Surface Mount Schottky Barrier Rectifiers

Features

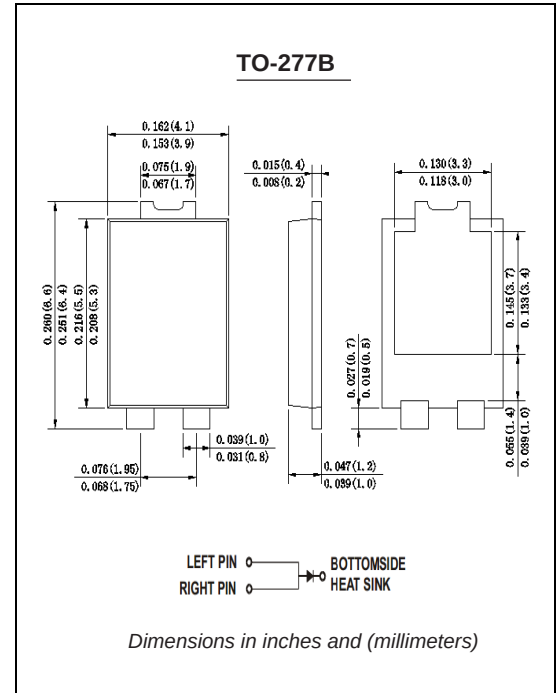
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10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

Mechanical Data

Case: JEDEC TO-277B molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Mounting Position: Any



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%.

	SYMBOLS	SL 1520	SL 1540	SL 1545	SL 1560	SL 1580	SL 15100	SL 15150	SL 15200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	60	80	100	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	14	28	32	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	V _{DC}	20	40	45	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T _L =110°C	I _(AV)	15.0								Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250.0								Amps
Maximum instantaneous forward voltage at 15.0A	V _F	0.55			0.70	0.85		0.95		Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5						0.1		mA
		20.0			10.0		2.0			
Typical thermal resistance (NOTE 1)	R _{θJA}	55.0								C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150								°C

Note: 1.P.C.B. mounted with 8.0x8.0mm copper pad areas

Ratings And Characteristic Curves

SL1520 THRU SL15200

FIG. 1- FORWARD CURRENT DERATING CURVE

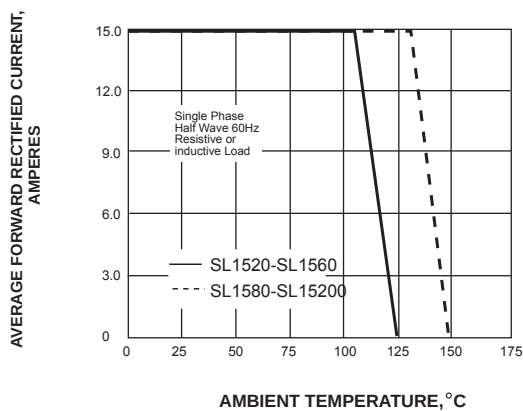


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

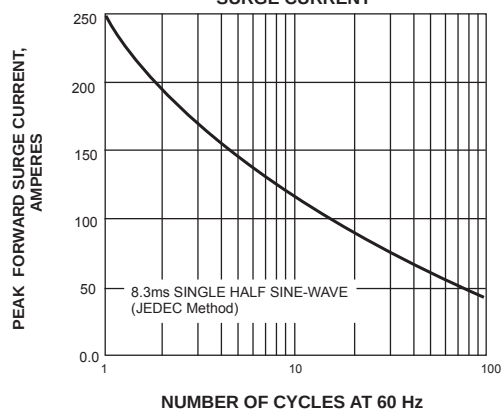


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

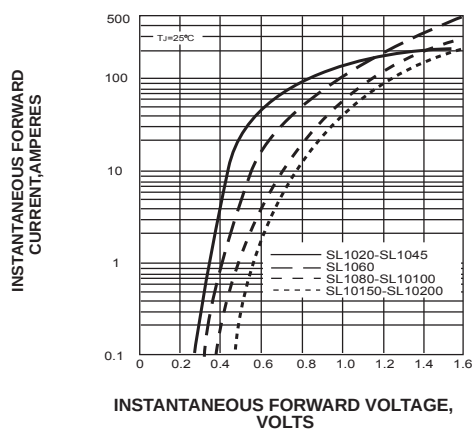


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

