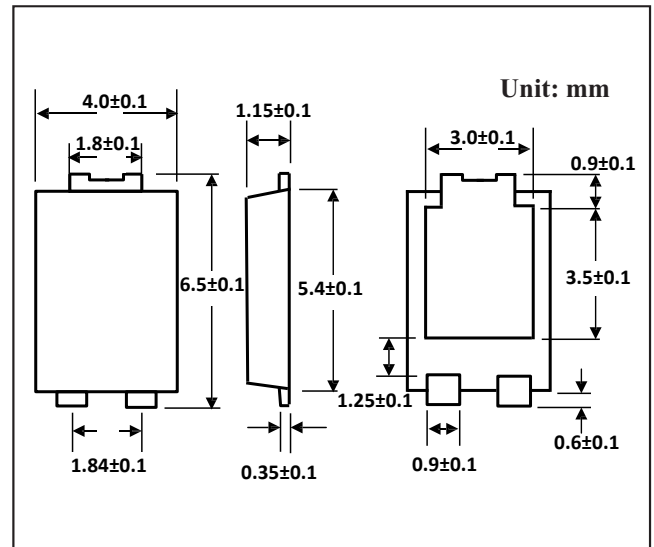


TO-277 SILICON BRIDGE RECTIFIER
FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: TO-277 molded plastic
- Mounting position: Any


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	SYMBOLS	SL1540	SL1545	SL1550	SL1560	SL1580	SL15100	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		m A
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

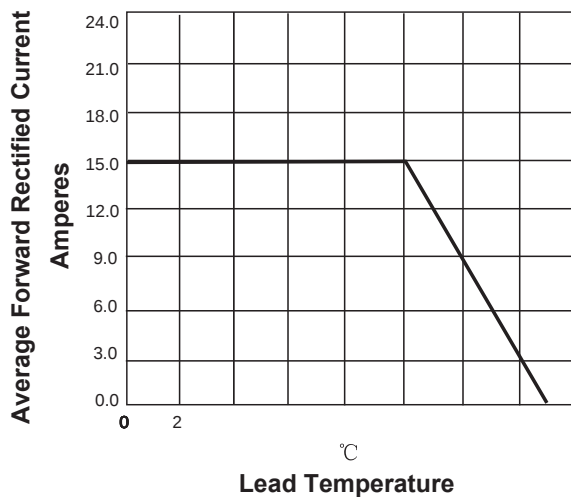


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

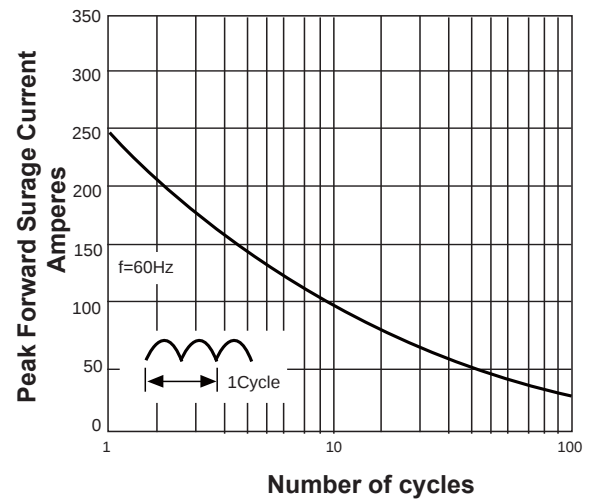


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

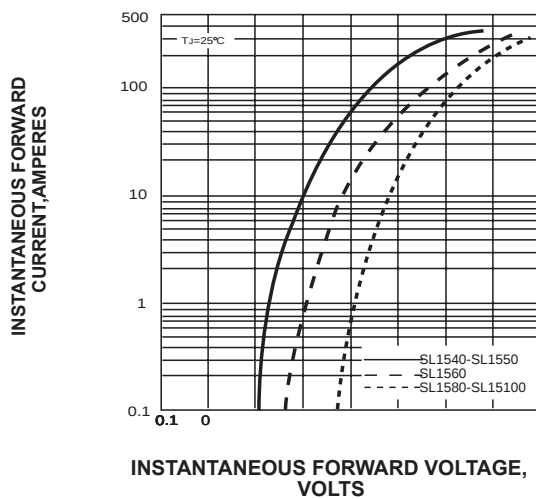


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

