

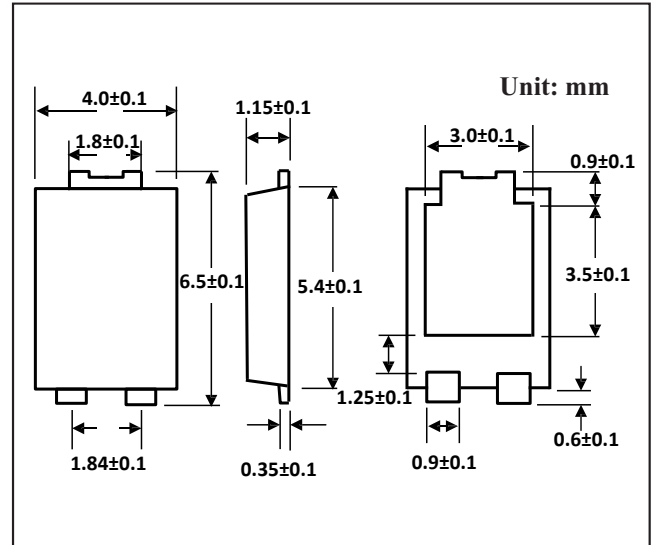
TO-277 SILICON BRIDGE RECTIFIER

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%.

		Symbols	SP 1535L	SP 1545L	SP 1550L	SP 1560L	SP 15100L	SP 15150L	SP 15200L	Units
Maximum repetitive peak reverse voltage		VRRM	35	45	50	60	100	150	200	Volts
Maximum RMS voltage		VRMS	25	32	35	42	70	105	140	Volts
Maximum DC blocking voltage		VDC	35	45	50	60	100	150	200	Volts
Maximum average forward rectified current See Fig. 1		l(AV)	15.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		lFSM	150.0							Amps
Maximum instantaneous forward voltage at 15 A		VF	0.50	0.55		0.70	0.80	0.85	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage	Tc = 25°C	lR	0.3							mA
	Tc = 125°C		30		50					
Typical thermal resistance		RθJC	3.0							°C/W
Operating junction temperature range		TJ	-65 to +150							°C
Storage temperature range		TSTG	-65 to +150							°C

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

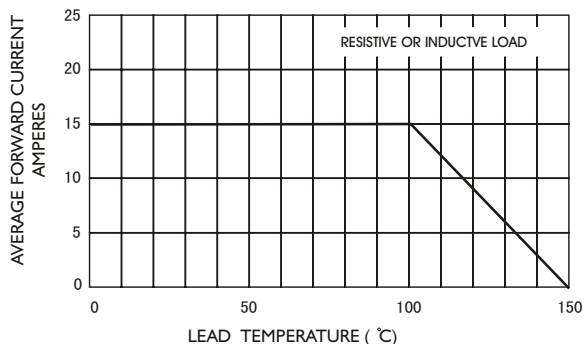


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

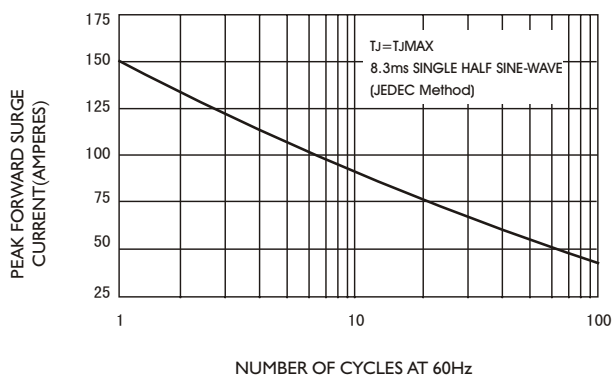


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

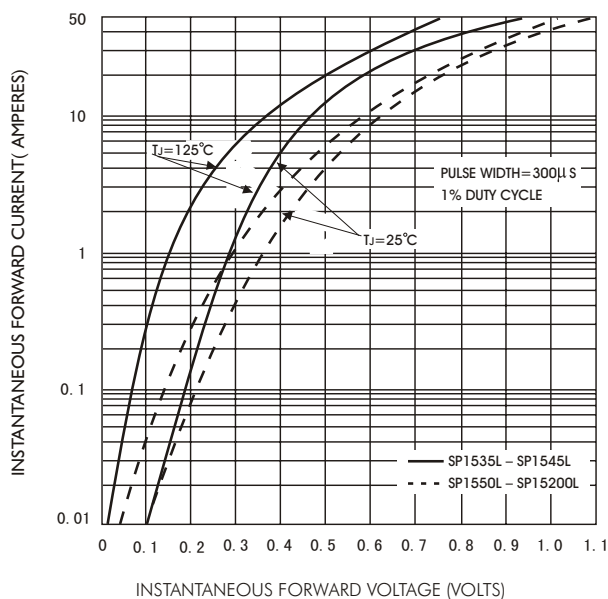


FIG.4-TYPICAL REVERSE CHARACTERISTICS

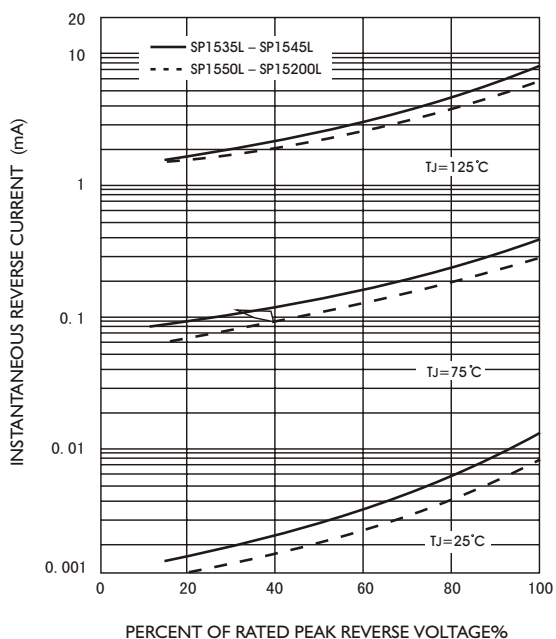


FIG.5-TYPICAL JUNCTION CAPACITANCE

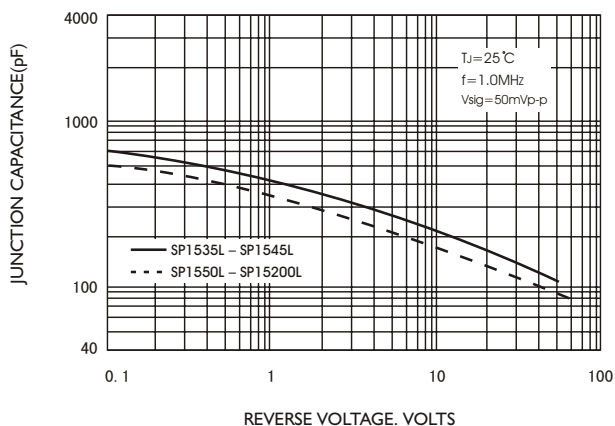


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

