

## SILICON BRIDGE RECTIFIER

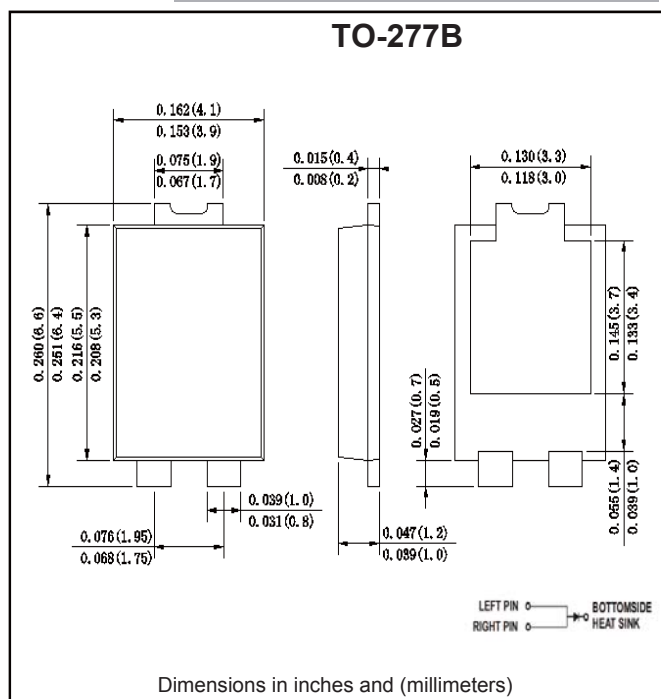
REVERSE VOLTAGE : 40 --- 100 V  
CURRENT: 10.0A

### 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 : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position:Any



### 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	SL1040	SL1045	SL1050	SL1060	SL1080	SL10100	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 $T_L=100^\circ\text{C}$	$I_{(AV)}$	10.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	175.0						A
Maximum instantaneous forward voltage at 2.0A at 10.0A	$V_F$	0.35 0.48		0.40 0.55		0.45 0.70		V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	$I_R$	0.5 50				0.2 20		mA
Typical thermal resistance	$R_{\theta JA}$	60.0						$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +150						$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150						$^\circ\text{C}$

# RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

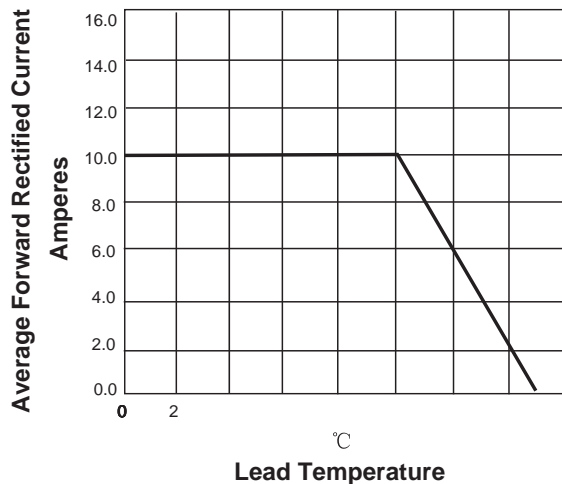


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

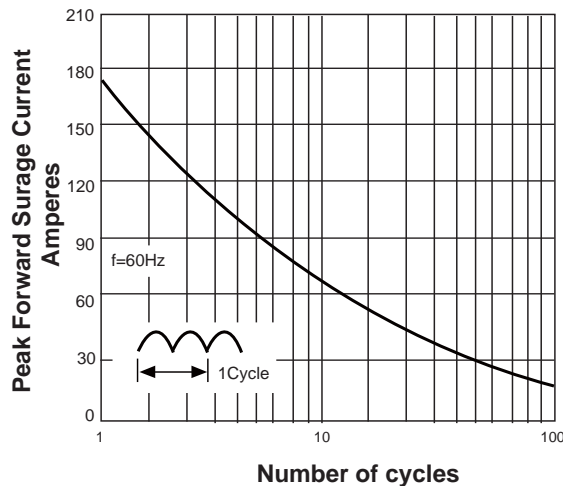


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

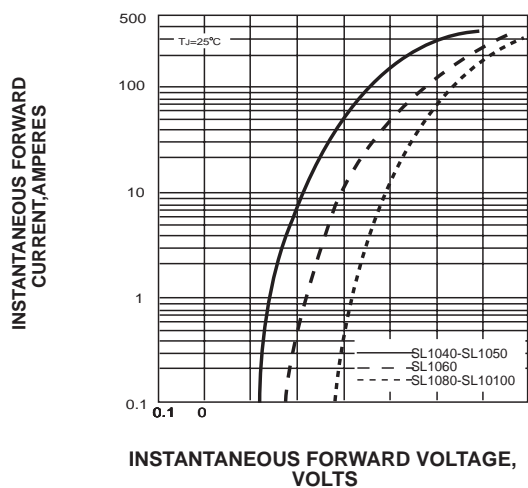


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

