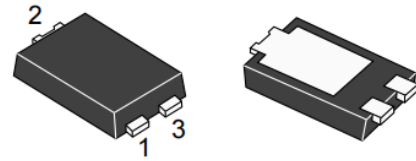
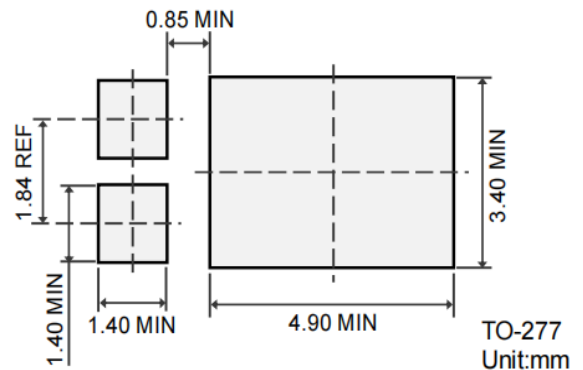

Features

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- HALOGEN FREE

TO-277



Suggested Solder Pad Layout



Mechanical Data

- CASE : TRANSFER MOLDED
- LEADS :
- POLARITY : AS MARKED
- WEIGHT : 0.095 GRAMS (APPROXIMATELY)



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

RATINGS	Symbol	SB1045L	SB1060L	SB10100L	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	45	60	100	V
Maximum RMS voltage	V _{RMS}	31.5	42	70	V
Maximum DC blocking voltage	V _{DC}	45	60	100	V
Maximum average forward rectified current at T _L (see fig.1)	I _O	10			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg	I _{FSM}	200			A
Storage temperature range	T _{STG}	- 65 TO + 175			°C
Operating junction temperature range	T _J	- 55 TO + 150			°C



Ratings and Characteristic Curves $T_A = 25^\circ\text{C}$ unless otherwise noted

FIG. 1-FORWARD CURRENT DERATING CURVE

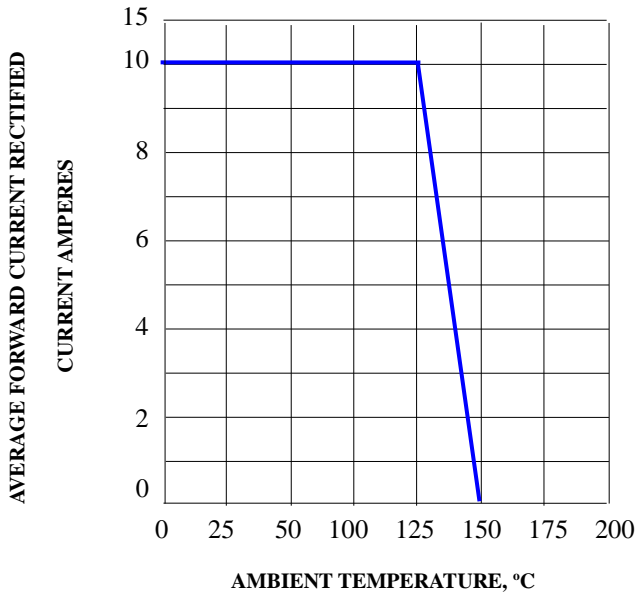


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

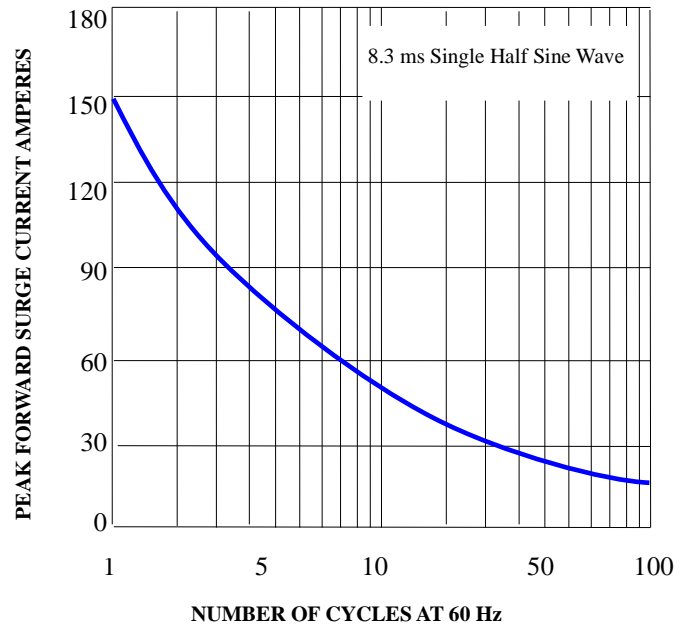


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

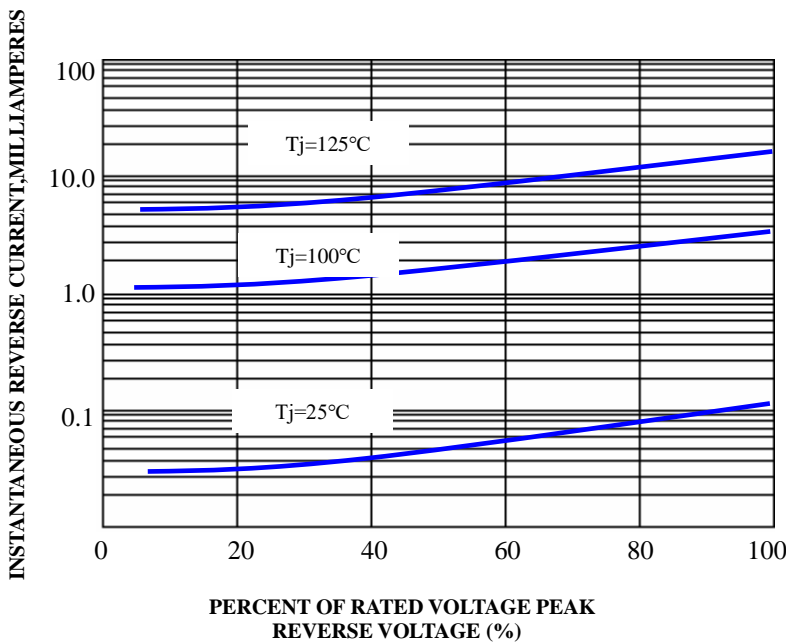


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

