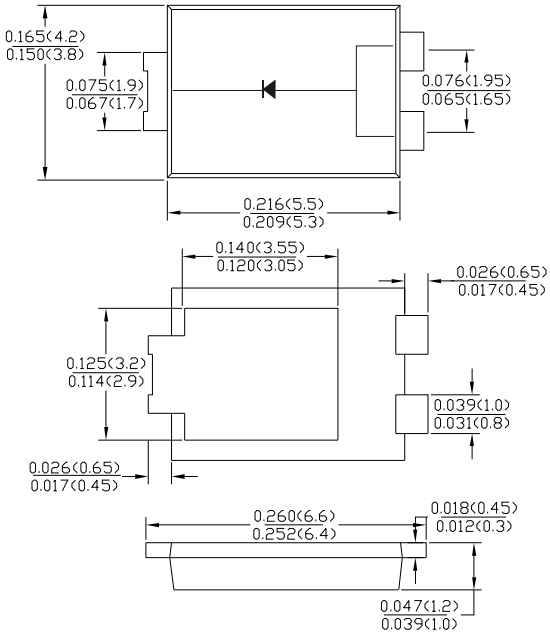
SB1045L

10.0Amp Surface Mounted Schottky Barrier Rectifiers

TO-277B

Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Fow Power Loss,High Efficiency Excellent
- High Temperature Stability Plastic
- material-UL flammability 94V-0



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TO-277 Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.003 ounce, 0.0092 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS(B) 1045L	SS(B) 1050L	SS(B) 1060L	SS(B) 1080L	SS(B) 10100L	SS(B) 10150L	UNITS
Marking Code		SB 1045L	SB 1050L	SB 1060L	SB 1080L	SB 10100L	SB 10150L	
Maximum repetitive peak reverse voltage	V_{RMM}	45	50	60	80	100	150	V
Maximum RMS voltage	V_{RMS}	32	35	42	56	70	105	V
Maximum DC blocking voltage	V_{DC}	45	50	60	80	100	150	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1) (Note1)	$I_{(AV)}$	10.0						A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method) (Note2)	I_{FSM}	275.0						A
Maximum instantaneous forward voltage at 10.0A	V_F	0.42	0.45	0.47	0.75		0.78	V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	0.3						mA
		15.0						
Typical junction capacitance (NOTE 1)	C_J	80						pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	15.0						℃/W
Operating junction and storage	T_J	-65 to +150						℃
Storage temperature range	T_{STG}	-65 to +150						℃

Note:1.Valid Provided that are kept at ambient temperature at a distance of 9.5mm from the case.
2.Fr-4pcb.2oz.Copper,minimum recommend pad layout .18.8mm×14.4.Anode pad dimensions 5.6mm×14.4mm.

Ratings And Characteristic Curves

Fig.1 - Forward Current Derating Curve

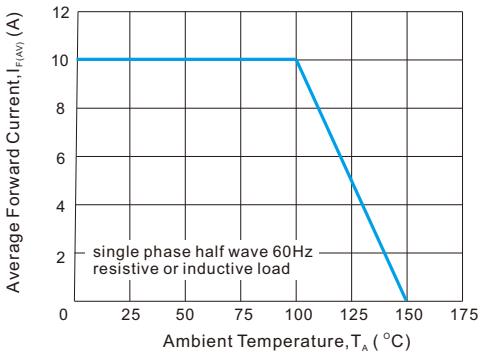


Fig.2 :Instantaneous Forward Voltage

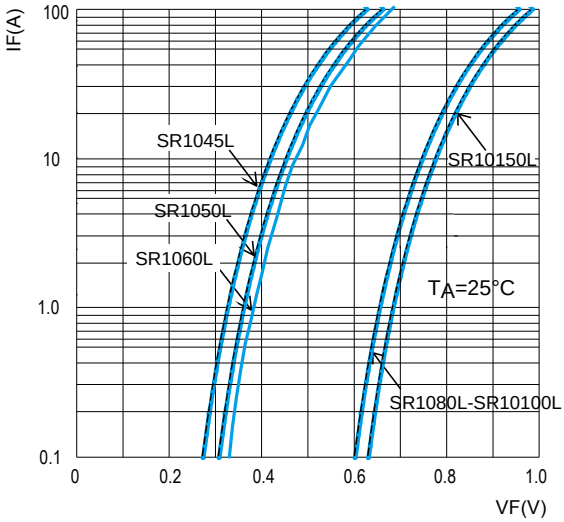


Fig.3: Surge Forward Current Capadility

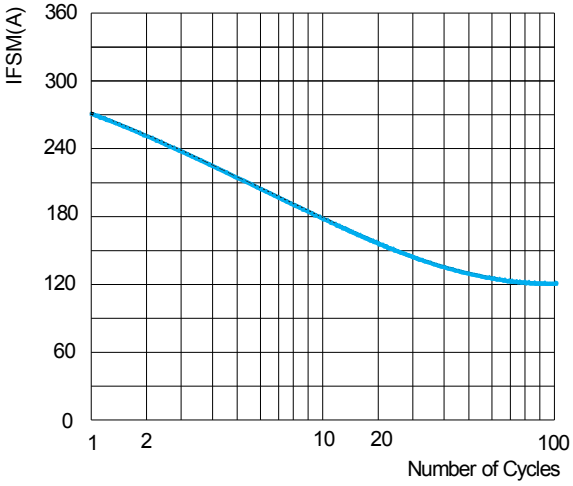


Fig.4: Typical Reverse Characteristics