百圳君耀
aiZhenJunYao

SB1045L THRU SB10200L

Reverse Voltage - 45 to 200 Volts Forward Current -10.0 Ampere

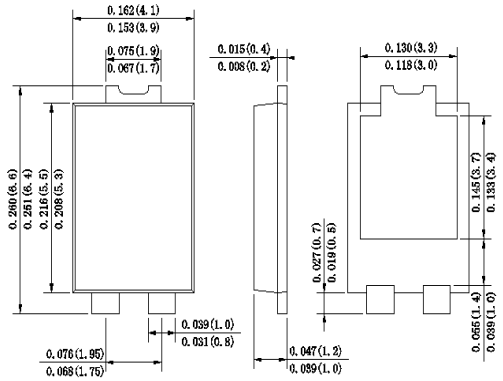
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

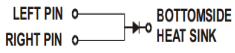
Features

TO-277

RoHS COMPLIANT

- 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 :Plated Leads Solderable per MIL-STD-202,Method 208
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.003 ounce, 0.092 grams

Maximum Ratings And Electrical Characteristics

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

Parameter	SYMBOLS	SB 1045L	SB 1050L	SB 1060L	SB 1080L	SB 10100L	SB 10150L	SB 10200L	UNIT
Marking Code		SB 1045L	SB 1050L	SB 1060L	SB 1080L	SB 10100L	SB 10150L	SB 10200L	
Maximum repetitive peak reverse voltage	V_{RRM}	45	50	60	80	100	150	200	V
Maximum working peak reverse voltage	V_{RWM}								
Maximum DC blocking voltage	V_{DC}								
RMS Reverse voltage	V_{RMS}	32	35	42	56	70	105	140	V
Average Rectified Output Current	$I_{(O)}$	10							A
Non-Repetitive Peak Forward Surge8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}	150							A
Forward Voltage Drop at 10.0A T_A=25℃	V_F	0.55		0.60	0.75		0.78	0.92	V
Peak reverse curent T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	0.3 15							mA
Typical thermal resistance Junctionto Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80 15							℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 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.

SB1045L THRU SB10200L

Reverse Voltage - 45 to 200 Volts Forward Current -10.0 Ampere

Ratings And Characteristic Curves

Fig.1 - Forward Current Derating Curve

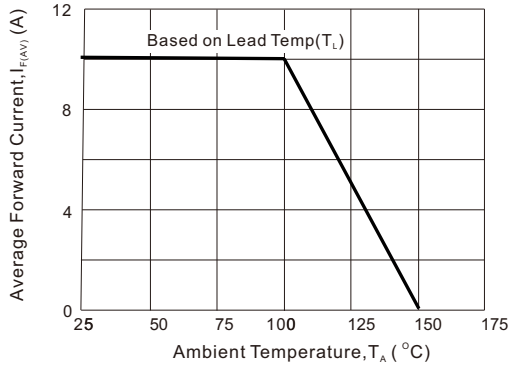


Fig2 : Instantaneous Forward Voltage

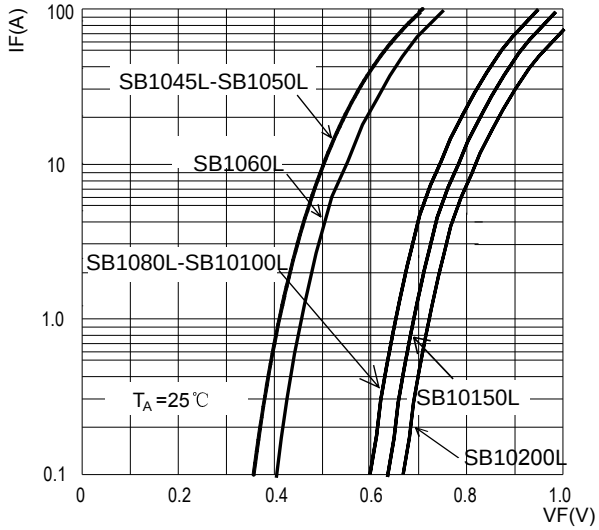


Fig3: Surge Forward Current Capadility

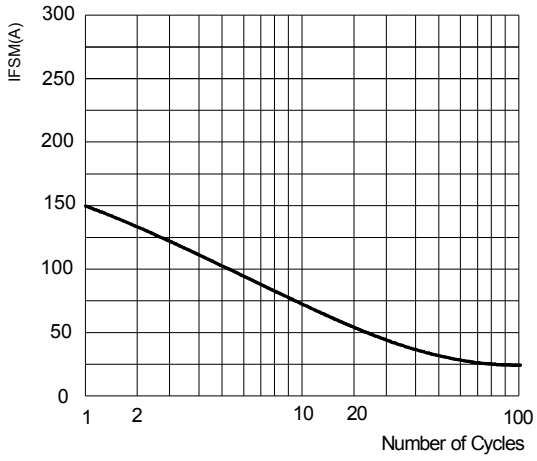
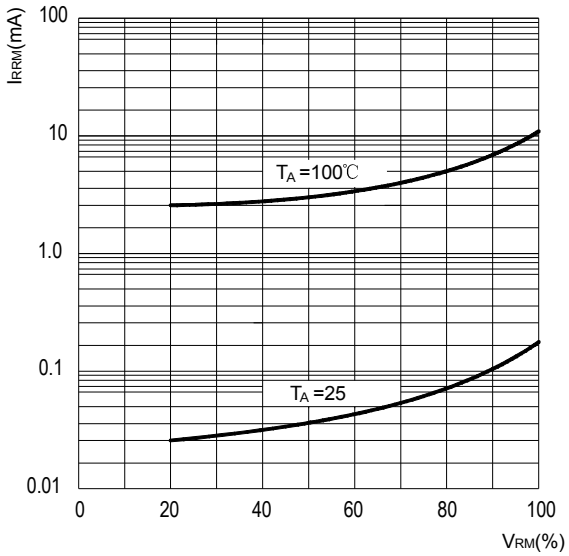


Fig4: Typical Reverse Characteristics

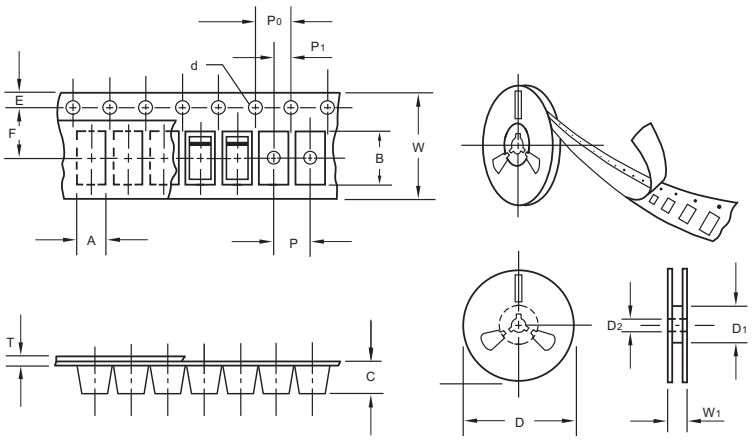


The curve above is for reference only.

SB1045L THRU SB10200L

Reverse Voltage - 45 to 200 Volts Forward Current -10.0 Ampere

Packing information



unit:mm

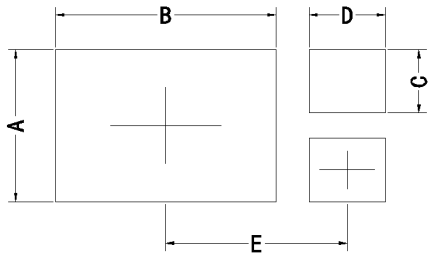
Item	Symbol	Tolerance	TO-277
Carrier width	A	0.1	4.45
Carrier length	B	0.1	7.0
Carrier depth	C	0.1	1.60
Sprocket hole	d	0.05	1.55
11" Reel outside diameter	D	2.0	280.00
11" Reel inner diameter	D_1	min	50.0
Feed hole diameter	D_2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	7.50
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P_0	0.1	4.00
Embossment center	P_1	0.1	2.00
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	12.00
Reel width	W_1	1.0	12.30

Note:Devices are packed in accor dance with EIA standar RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
TO-277	13"	5,000	5.0	1,0000	340*340*43	280	380*380*380	60,000	9.0

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	3.60	0.142
B	5.35	0.211
C	1.50	0.059
D	1.85	0.073
E	4.30	0.169