SB120~SB1100

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 1000 Volt **CURRENT** 1 Ampere

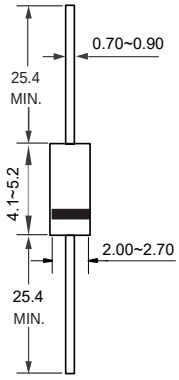
FEATURES

- Low power loss, High efficiency
- High surge current capability
- High current capacity, low VF
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0

DO-41 Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SB120	SB130	SB140	SB150	SB160	SB180	SB1100	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	1							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum Forward Voltage at 1A	V_F	0.55			0.70		0.85		V
Maximum DC Reverse Current at T_J=25°C Rated DC Blocking Voltage T_J=100°C	I_R	1.0 10							mA
Typical Junction Capacitance (Note1)	C_J	110							pF
Thermal Resistance (Note2)	$R_{\theta JA}$	50							°C / W
Operating Junction Temperature Range	T_J	-55 to +125			-55 to +150				°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:
1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

SB120~SB1100

RATING AND CHARACTERISTIC CURVES

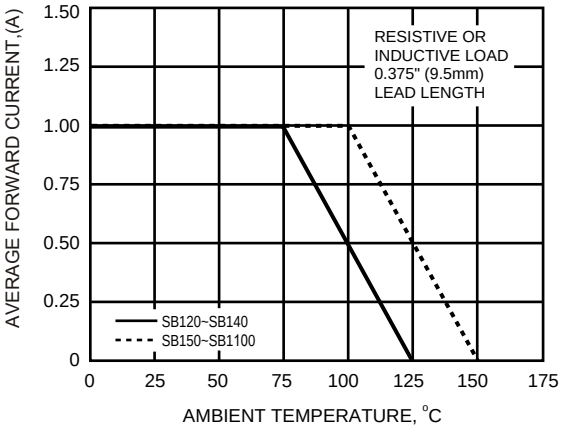


Fig. 1 Forward Current Derating Curve

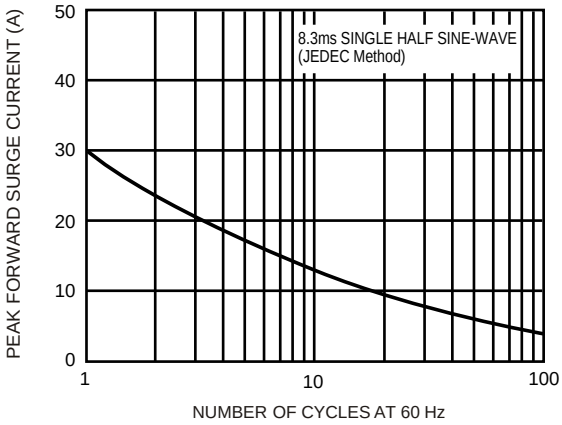


Fig. 2 Surge Current Derating Curve

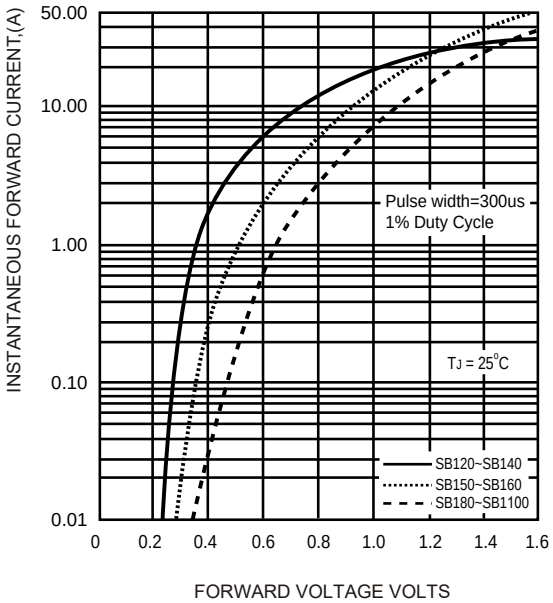


Fig. 3 Typical Forward Characteristics

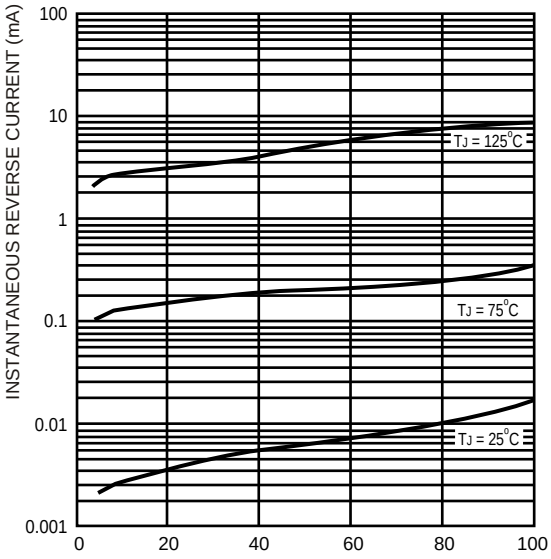


Fig. 4 Typical Reverse Characteristics

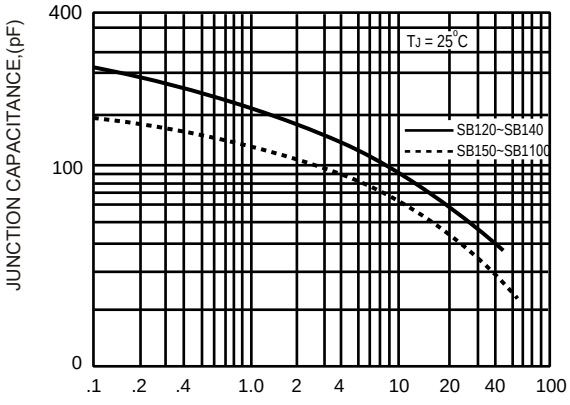


Fig. 5 Typical Junction Capacitance

ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SB120~SB1100	DO-41	13 Inch	5000