SB2P100

2.0AMPS. SCHOTTKY BARRIER RECTIFIERS

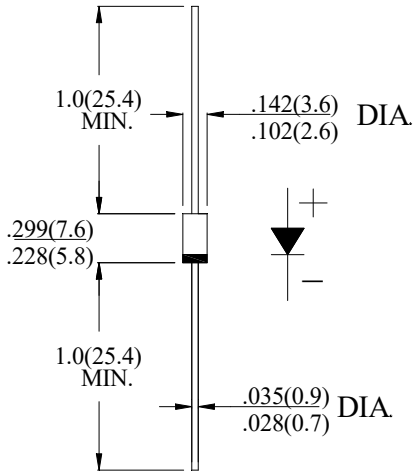
FEATURE

. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High temperature soldering guaranteed
260°C /1 0sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Mounting position: any

DO-15



Dimensions in inches and (millimeters)

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, derate current by 20%

Type Number		SYMBOL	SB2P100	units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	100	V
Maximum RMS Voltage		V_{RMS}	70	V
Maximum DC blocking Voltage		V_{DC}	100	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length		$I_{F(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	50	A
Forward Voltage @T_J=25℃	at 2.0A DC	$V_{F\ Max}$	0.72	V
	at 0.5A DC	$V_{F\ Type}$	0.36	
Maximum DC Reverse Current	@T_J=25℃	I_R	0.2	mA
at rated DC blocking voltage	@T_J=100℃		10	
Typical Junction Capacitance (Note1)		C_J	72	pF
Typical Thermal Resistance (Note2)		$R_{(JL)}$	42	℃/W
		$R_{(JC)}$	16	
Storage Temperature		T_{STG}	-55 to +150	℃
Operating Junction Temperature		T_J	-55 to +150	℃

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375"(9.5mm)lead length, vertical P.C. Board Mounted

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

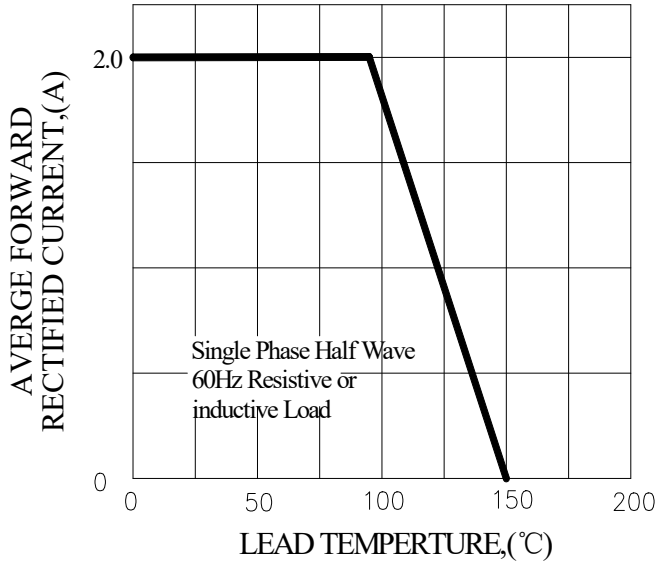


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

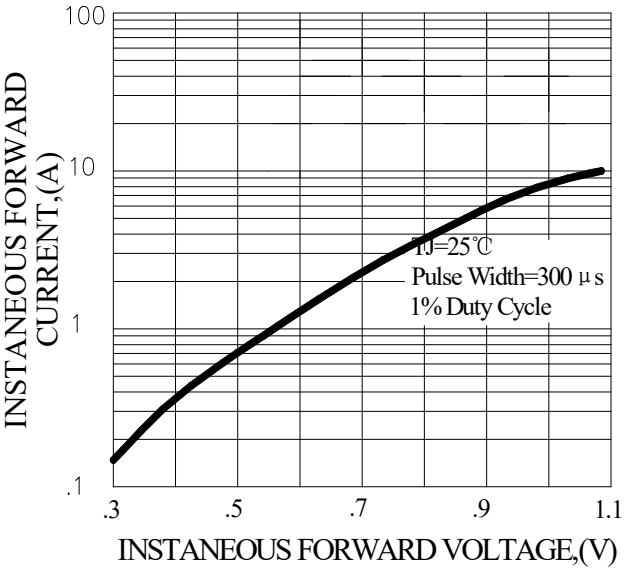


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

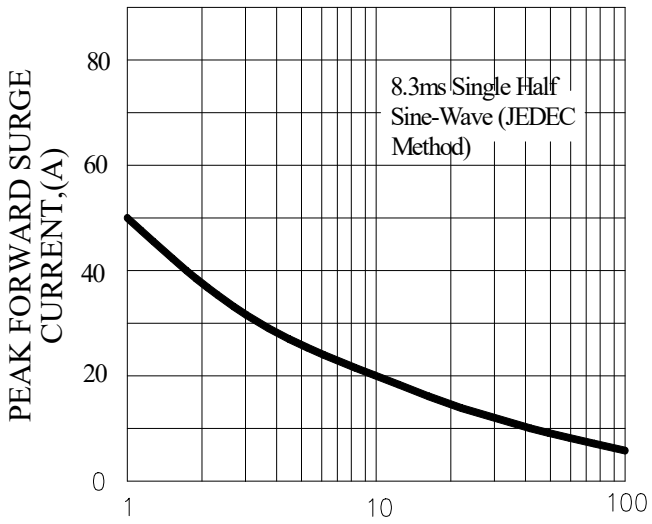
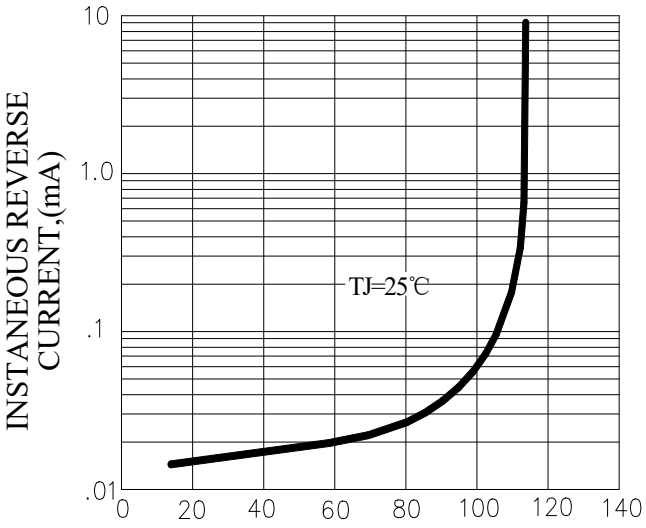
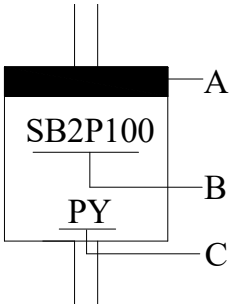


FIG.4-TYPICAL REVERSE CHARACTERISTICS



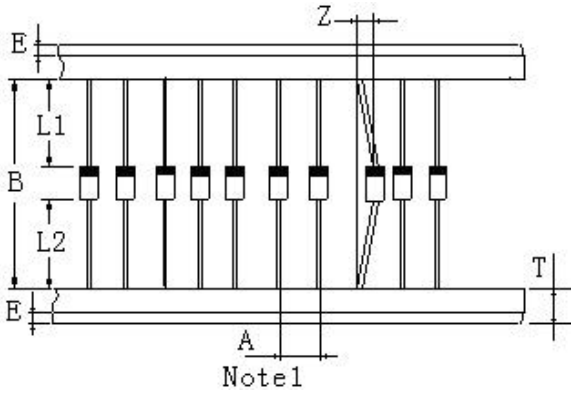
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Color Band Denotes Cathode
B	Product Name
C	Trademark

2、Packaging



ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.2±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	|L1-L2|	1.0max	0.040max
Component	A	5.0±0.5	0.2±0.02
Inner tap	B	52.0~53.5	2.06~2.11
NOTE： Each component lead shall be sandwiched between tapes for a minimum of 2.5mm（0.1inch）			