SB5T120

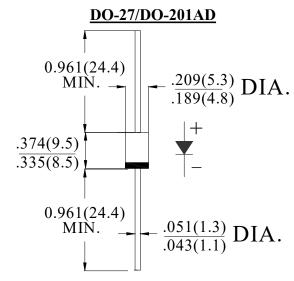
5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . For surface mounted application
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge current capability
- . High temperature soldering guaranteed: 260°C/10 seconds at terminals.

MECHANICAL DATA

- . Terminal: Solder plated
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy (free halogen)
- . Polarity: color band denotes cathode
- . Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

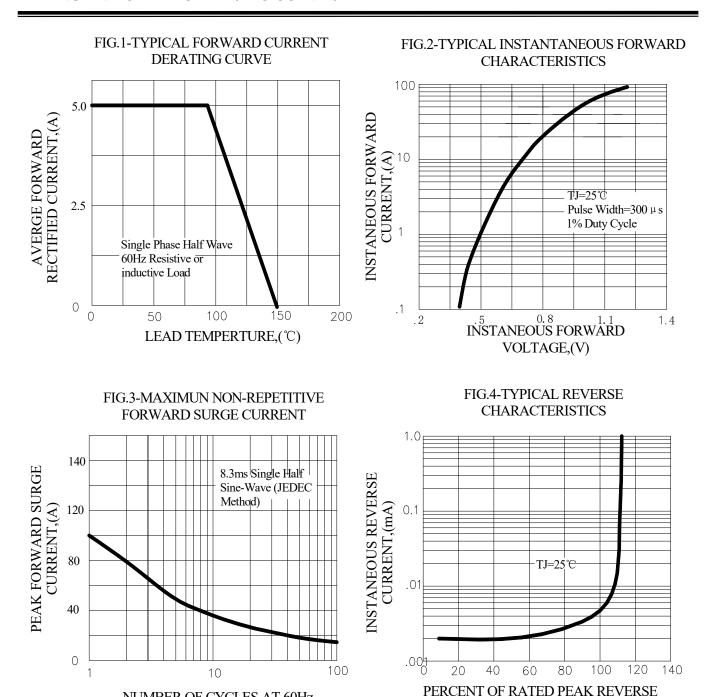
Type Number		SYMBOL	SB5T120	units
		Marking	SB5T120	units
Maximum Recurrent Peak Reverse Voltage		$V_{ m RRM}$	120	V
Maximum RMS Voltage		$V_{ m RMS}$	84	V
Maximum DC blocking Voltage		$V_{ m DC}$	120	V
Maximum Average Forward Rectified Current		$I_{\text{F(AV)}}$	5.0	A
Peak Forward Surge Current 8.3ms single half				
sine-wave superimposed on rated load		I_{FSM}	100	A
(JEDEC method)				
Maximum Forward Voltage	@ IF=5A	$V_{ m F}$	0.68	v
	@ IF=1A		0.52	
Maximum DC Reverse Current @T _J =25°C		I _R	0.2	
at rated DC blocking voltage @T _J =100°C			10.0	mA
Typical Junction Capacitance (Note1)		CJ	650	pF
Typical Thermal Resistance (Note2)		$R_{(JC)}$	14	°C/W
Storage Temperature		TSTG	-55 to +150	°C
Operating Junction Temperature		$T_{ m J}$	-55 to +150	°C

Note:

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

RATING AND CHARACTERISTIC CURVES

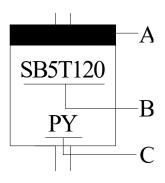
NUMBER OF CYCLES AT 60Hz



VOLTAGE.(%)

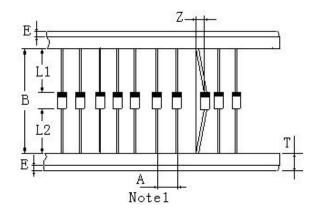
Marking and packaging illustration

1. Marking



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

2. Packaging



ITEM	SYMBOL	SPECIFICATIONS	SPECIFICATIONS
I I EIVI	SYMBOL	(mm)	(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0 ± 0.4	0.236 ± 0.016
Exposed adhesive	Е	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max
Component	A	10.0 ± 0.5	0.4 ± 0.02
Inner tap	В	52.0~53.5	2.05~2.11

NOTE:

Each component lead shall be sandwiched between tapes for a minimum of 2.5mm (0.1inch)