#### SB2P45-41 2.0AMPS. PLANAR MOS SCHOTTKY RECTIFIERS **DO-41** FEATURE . High current capability . Low forward voltage drop .110(2.8) DIA. 1.0(25.4). Low power loss, high efficiency MIN. . High surge capability .080(2.0). High temperature soldering guaranteed .205(5.2) 260°C /1 0sec/0.375" lead length at 5 lbs tension .166(4.2) **MECHANICAL DATA** .032(0.8)DIA. . Terminal: Plated axial leads solderable per 1.0(25.4) .025(0.65)MIL-STD 202E, method 208C MIN . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy . Polarity: color band denotes cathode Dimensions in inches and (millimeters) . Mounting position: any 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% SYM **SB2P45 Type Number** units BOL **V**<sub>RRM</sub> Maximum Recurrent Peak Reverse Voltage 45 V **V<sub>RMS</sub>** V Maximum RMS Voltage 31.5 $V_{\rm DC}$ 45 V Maximum DC blocking Voltage Maximum Average Forward Rectified Current $I_{F(AV)}$ 2.0 А Peak Forward Surge Current 8.3ms single half 50 IFSM А sine-wave superimposed on rated load Maximum Forward Voltage @2.0A DC 0.49 at Ti=25°C @0.5A DC 0.33 V<sub>F Max</sub> V Maximum Forward Voltage 0.45 @2.0A DC at Ti=100°C 0.30 @0.5A DC 0.2 Maximum DC Reverse Current $(a)T_1 = 25^{\circ}C$ $I_{\rm R}$ mA 40.0 at rated DC blocking voltage (a)T=100°C Typical Junction Capacitance (Note1) $C_{\rm J}$ 130 pF **R**(JA) 75 Typical Thermal Resistance (Note2) °C/W 25 $R_{(JC)}$ Storage Temperature **T**STG -55 to +150 °C -55 to +150 °C **Operating Junction Temperature** TI

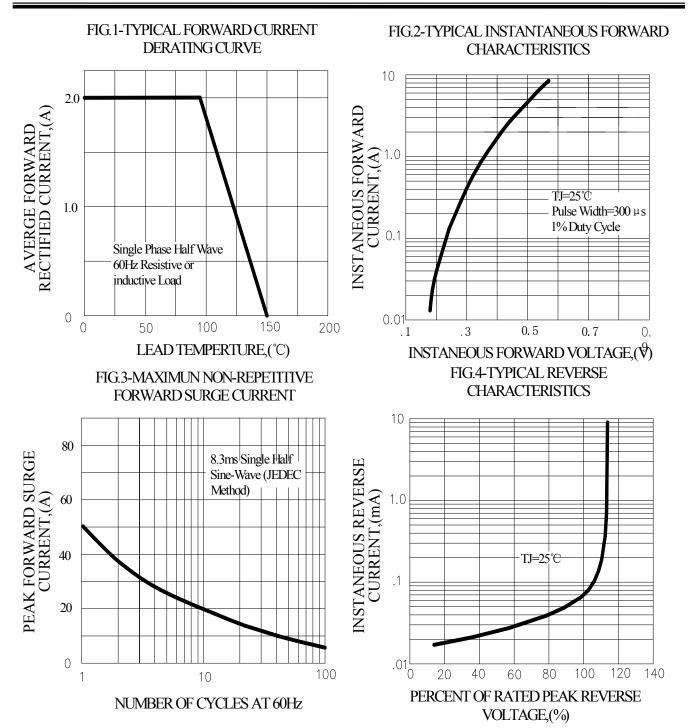
Note:

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



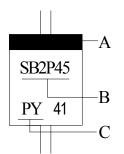
#### RATING AND CHARACTERISTIC CURVES (SB2P45-41)





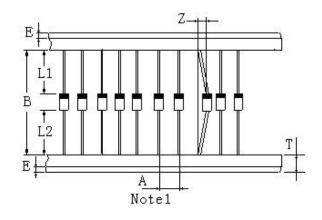
## Marking and packaging illustration

### 1、Marking



SYMBOL	Explanation	
Α	Color Band Denotes Cathode	
B	Product Name	
С	Trademark	

#### 2、Packaging



ITEM	SYMBOL	SPECIFICATIONS	SPECIFICATIONS
		(mm)	(inch)
Component alignment	Ζ	1.2max	0.048max
Tape width	Т	6.0±0.4	0.2±0.016
Exposed adhesive	Е	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max
Component	А	5.0±0.5	0.2±0.02
Inner tap	В	52.0~53.5	2.06~2.11
NOTE:		·	
Each component lead s	hall be sandwiched betwee	en tapes for a minimum of 2.5mm	n (0.1inch)

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