

<b>SB240L</b>			
<b>2.0AMPS. SCHOTTKY BARRIER RECTIFIERS</b>			
<p><b>FEATURE</b></p> <ul style="list-style-type: none"> <li>. High current capability</li> <li>. Low forward voltage drop</li> <li>. Low power loss, high efficiency</li> <li>. High surge capability</li> <li>. High temperature soldering guaranteed 260°C /1 0sec/0.375" lead length at 5 lbs tension</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C</li> <li>. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy (free halogen )</li> <li>. Polarity: color band denotes cathode</li> <li>. Mounting position: any</li> </ul>	<p><b>DO-15</b></p> <p style="text-align: right;">DIA.</p> <p style="text-align: right;">DIA.</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>		
<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>			
<p>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%</p>			
Type Number	SYMBOL	SB240L	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS Voltage	$V_{RMS}$	28	V
Maximum DC blocking Voltage	$V_{DC}$	40	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)	$I_{FSM}$	50.0	A
Maximum Forward Voltage at 2.0A DC	$V_F$	0.5	V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=100^\circ\text{C}$	$I_R$	0.2	mA
		10.0	
Typical Junction Capacitance (Note1)	$C_J$	170	pF
Typical Thermal Resistance (Note2)	$R_{(JA)}$	50	°C/W
	$R_{(JC)}$	22	
Storage Temperature	$T_{STG}$	-55 to +150	°C
Operating Junction Temperature	$T_J$	-55 to +125	°C
<b>Note:</b>			
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 (SB240L)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

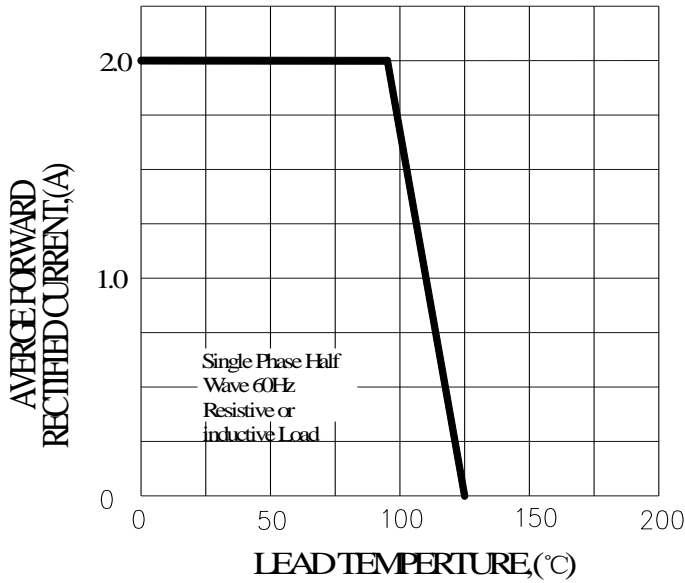


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

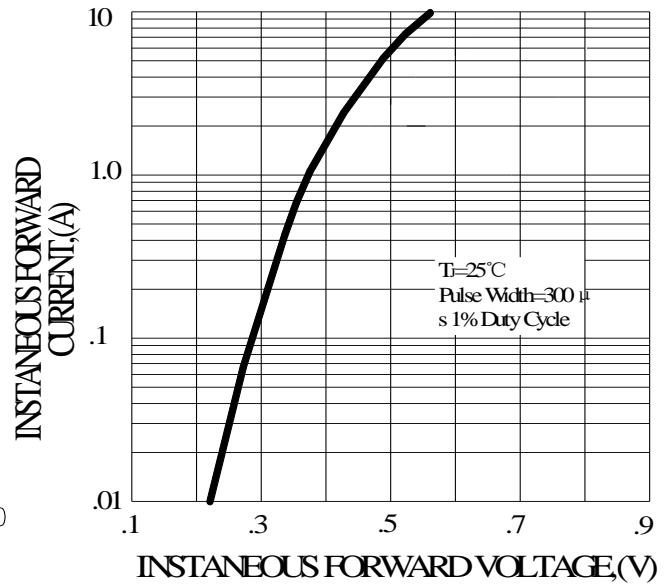


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

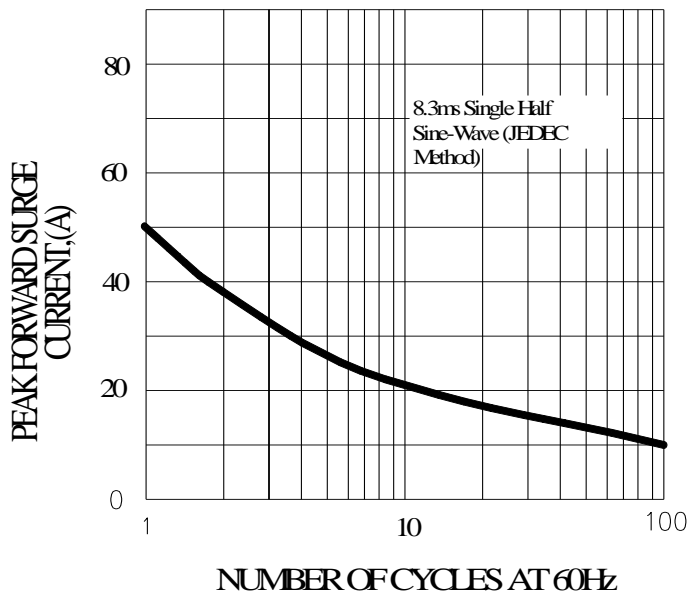


FIG.4-TYPICAL REVERSE CHARACTERISTICS

