

## **SB540**

		SD340	
5.0AMPS.	SCHOTT	KY BARRIER RECTIFIERS	
FEATURE		<u>DO-27/DO-201AD</u>	
<ul> <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 /10sec/ 0.375" lead length at 5 lbs tension</li> </ul> <b>MECHANICAL DATA</b> <ul> <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</li> <li>Polarity: color band denotes cathode</li> <li>Mounting position: any</li> </ul>	n	$\begin{array}{c} 0.96(24.4) \\ MIN. \\ .375(9.5) \\ .335(8.5) \\ 0.96(24.4) \\ MIN. \\ . \\ . \\ 0.96(24.4) \\ MIN. \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\$	Α.
MAXIMUM RATINGS AND ELI		Dimensions in inches and (millimeters)	
Ratings at 25 °C ambient temperature unless other Single phase, half wave, 60Hz,resistive or induct For capacitive load, derate current by 20% <b>Type Number</b>	-	SB540	units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_L = 90^{\circ}C$	I <sub>F(AV)</sub>	5.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	120.0	A
Maximum Forward Voltage at 5.0A DC	VF	0.55	V
Maximum DC Reverse Current $@T_A=25^{\circ}C$ at rated DC blocking voltage $@T_A=100^{\circ}C$	IR	0.5 40.0	mA
Typical Junction Capacitance (Note 1)	Сл	500	pF
Typical Thermal Resistance (Note 2)	<b>R</b> <sub>(JA)</sub>	40	°C/W
Storage Temperature	TSTG	-55 to +150	°C
Operation Junction Temperature	TJ	-55 to +125	°C

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 (SB540)

