SB02EQ THRU SB04EQ

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 40V CURRENT: 1.0A



FEATURE

High current capability, Low forward voltage drop Low power loss, high efficiency High surge capability High temperature soldering guaranteed 250℃ /10sec/0.375" lead length at 5 lbs tension These are Pb–Free Devices

MECHANICAL DATA

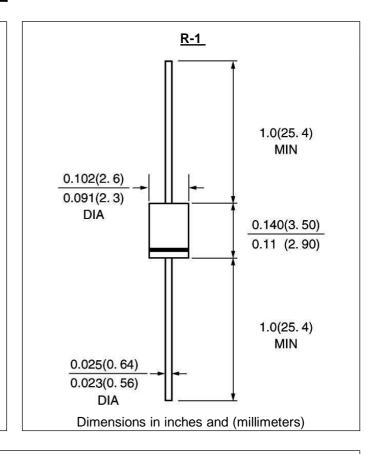
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any Mark: S02 S03 S04



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

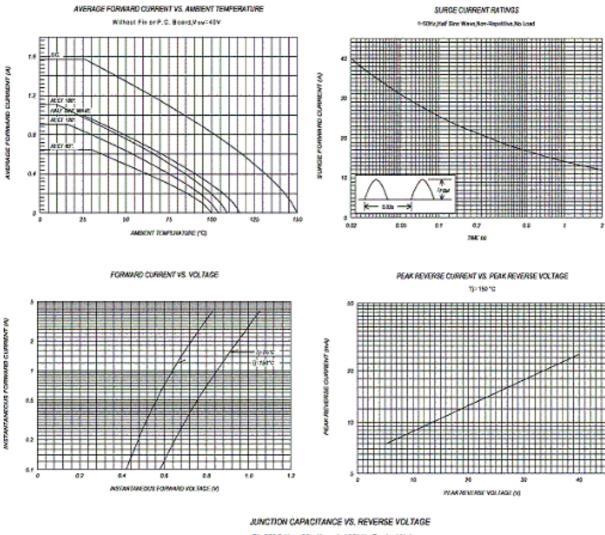
	SYMBOL	SB02EQ	SB03EQ	SB04EQ	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	V
Maximum RMS Voltage	Vrms	14	21	28	V
Maximum DC blocking Voltage	Vdc	20	30	40	V
Maximum Average Forward Rectified Current 0.375" lead length TL=60℃	If(av)	1.0			Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	40.0			Α
Maximum Forward Voltage at 0.6A DC(Note 1)	Vf	0.55			V
Maximum DC Reverse Current Ta =25℃	Ir	0.5		mA	
at rated DC blocking voltage Ta =100℃		10.0			mA
Typical Thermal Resistance (Note 2)	R(ja)	80.0			€\M
Storage and Operating Junction Temperature	Tj	-50 to +150			C

Note:

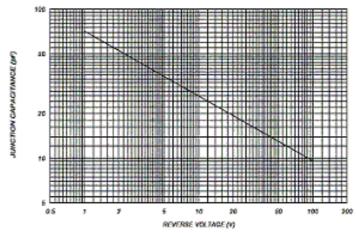
- 1. Pulse test :300uS pulse width ,1% duty cycle.
- 2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted ¹

¹ Rev.A6 www.gulfsemi.com.cn

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Tj=25° C,//m=20mVivs,f=100kHz,Typital Value



² Rev.A6 www.gulfsemi.com.cn