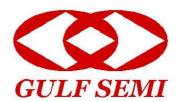
## **SB340S**

# SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 40V CURRENT: 3.0A



### **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

### **MECHANICAL DATA**

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

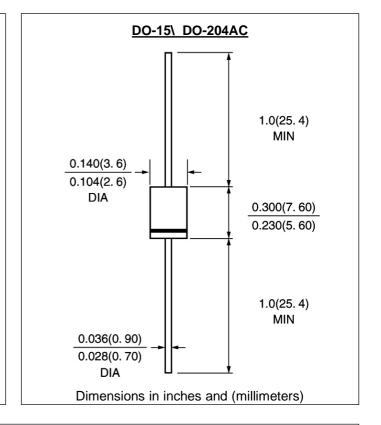
Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Weight: 0.4g

Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

SYMBOL	SB340S	units
Vrrm	40	V
Vrms	28	V
Vdc	40	V
If(av)	3.0	А
Ifsm	100	А
Vf	0.5	V
lr	0.5 20	mA
Cj	150.0	pF
E <sub>ARM</sub>	6	mJ
Rth(ja)	35.0	C/M
Tstg, Tj	-65 to +150	C
	Vrrm Vrms Vdc If(av) Ifsm Vf Ir Cj EARM Rth(ja)	Vrrm         40           Vrms         28           Vdc         40           If(av)         3.0           Ifsm         100           Vf         0.5           Ir         20           Cj         150.0           E <sub>ARM</sub> 6           Rth(ja)         35.0

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

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#### **RATINGS AND CHARACTERISTIC CURVES SB340S**

Fig.1: Average forward current versus ambient temperature ( $\delta$  = 0.5) (DO-15).

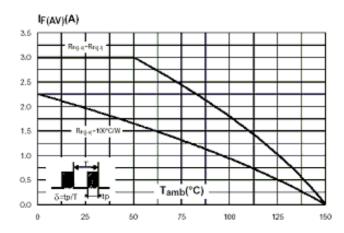


Fig.3: Junction capacitance versus reverse voltage applied (typical values).

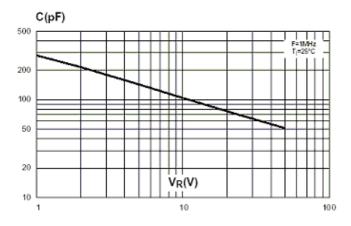


Fig.5: Non repetitive surge peak forward current versus overload duration (maximum values)

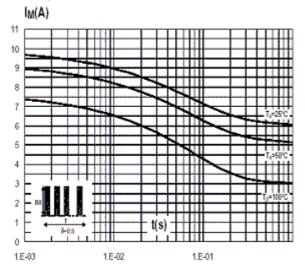


Fig.2: Normalized avalanche power derating versus pulse duration.

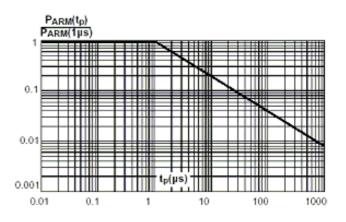


Fig.4: Forward voltage drop versus forward current (high level, maximum values).

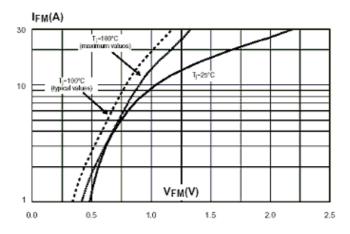
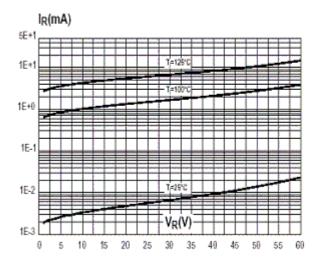


Fig.6: Reverse leakage current versus reverse voltage applied (typical values).



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