

S3WB20

PRV : 200 Volts

Io : 2.3 Amperes

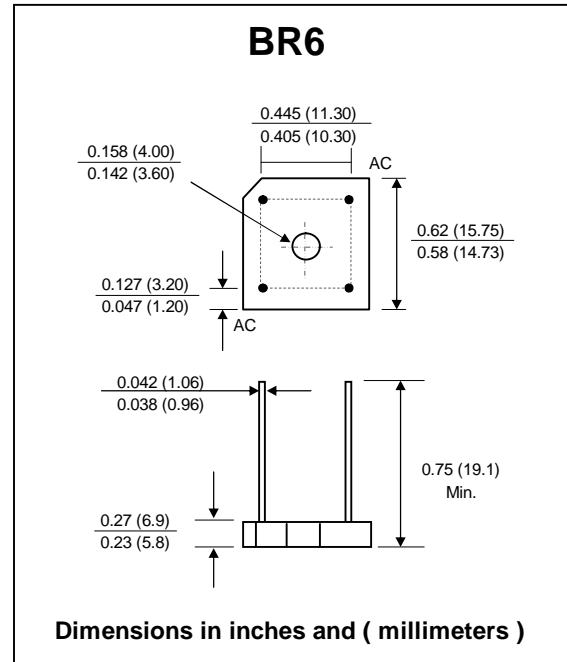
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Reliable low cost construction utilizing molded plastic technique
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL - STD 202 , Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 3.6 grams

SILICON BRIDGE RECTIFIER



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	S3WB20	UNIT
Maximum Reverse Voltage	V _{RRM}	200	V
Maximum DC Blocking Voltage	V _{DC}	50	V
Maximum Average Forward Current T _c =50°C	I _{F(AV)}	2.3	A
Peak Forward Surge Current, Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	120	A
Current Squared Time at t < 8.3 ms.	I ² t	60	A ² S
Maximum Forward Voltage per Diode at I _F =3 A.	V _F	1.0	V
Maximum DC Reverse Current Ta = 25 °C	I _R	10	μA
Typical Thermal Resistance	R _{θJL}	5.5	°C/W
	R _{θJA}	26.5	
Operating Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

RATING AND CHARACTERISTIC CURVES (S3WB20)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

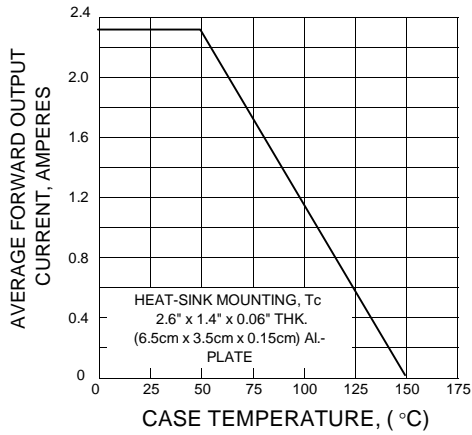


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

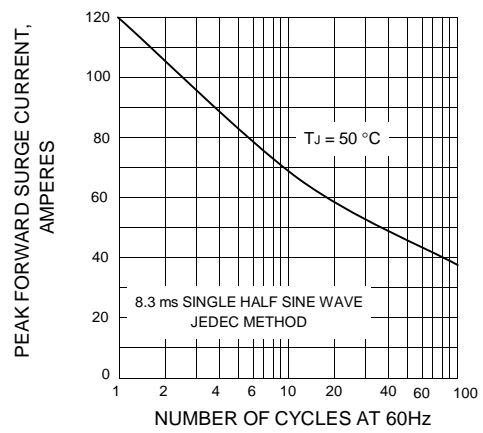


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

