

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 :

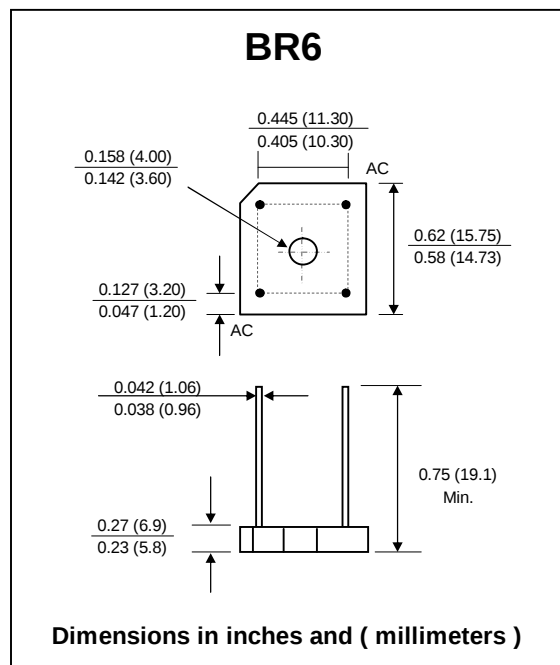
- * Case : Reliable low cost construction utilizing molded plastic technique
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL - STD 202 , Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 3.6 grams

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 $T_c=50^{\circ}\text{C}$	$I_{F(AV)}$	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^2t	60	A^2S
Maximum Forward Voltage per Diode at $I_F = 3$ A.	V_F	1.0	V
Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$	I_R	10	μA
Typical Thermal Resistance	$R_{\theta JL}$	5.5	$^{\circ}\text{C/W}$
	$R_{\theta JA}$	26.5	
Operating Junction Temperature Range	T_J	- 40 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150	$^{\circ}\text{C}$

SILICON BRIDGE RECTIFIER



RATING AND CHARACTERISTIC CURVES (S3WB20)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

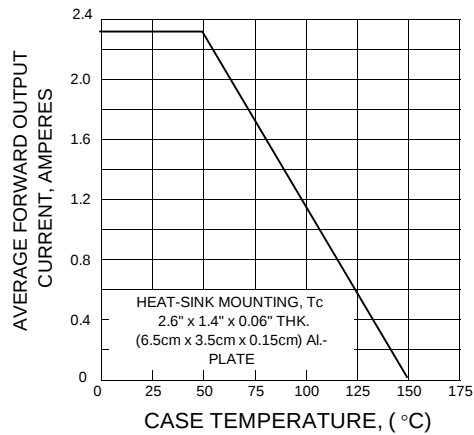


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

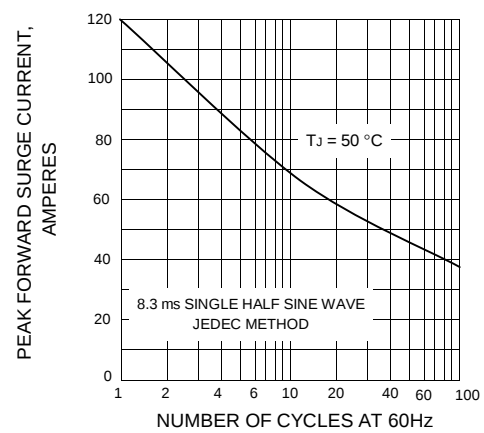


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

