

S1ZB20 - S1ZB80

PRV : 200 - 800 Volts

I_o : 0.8 Amperes

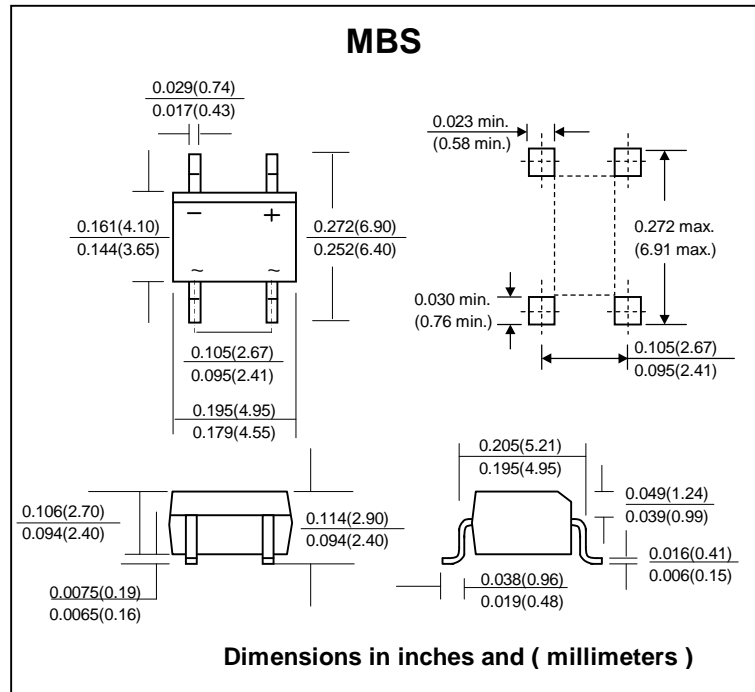
FEATURES :

- * 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 : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated Lead solderable per MIL-STD-202, Method 208
- * Polarity : Polarity symbols marked on body
- * Mounting position : Any
- * Weight : 0.22 gram

MINI-BRIDGE RECTIFIERS



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	S1ZB20	S1ZB60	S1ZB80	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	600	800	V
Maximum RMS Voltage	V _{RMS}	140	420	560	V
Maximum DC Blocking Voltage	V _{DC}	200	600	800	V
Maximum Average Forward Current	I _{F(AV)}	0.5 (on glass-epoxy substrate)			A
		0.8 (on aluminum substrate)			
Maximum Peak Forward Surge Current, Non-Repititive 1 Cycle Peak Value	I _{FSM}	30			A
Current Squared Time at 1ms ≤ t < 10 ms.	I ² t	4.5			A ² S
Maximum Forward Voltage per Diode at I _F = 0.4 A	V _F	1.05			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10			μA
Maximum Thermal Resistance, Junction to Lead	R _{θJL}	20			°C/W
Operating Junction Temperature Range	T _J	- 40 to + 150			°C
Storage Temperature Range	T _{STG}	- 40 to + 150			°C

RATING AND CHARACTERISTIC CURVES (S1ZB20 - S1ZB80)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

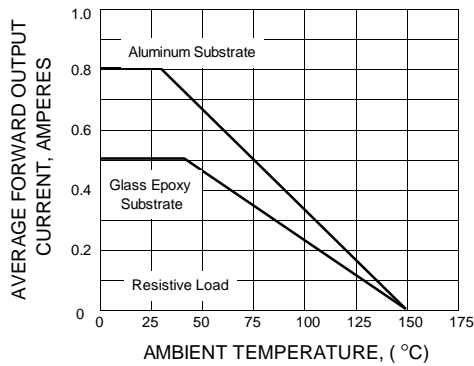


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

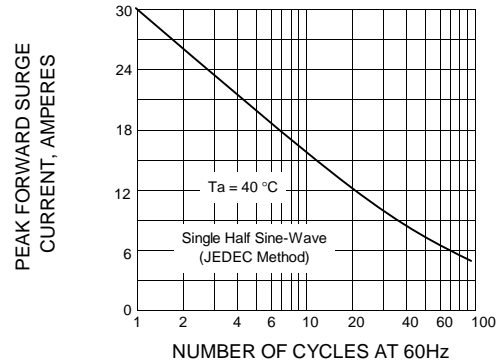


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

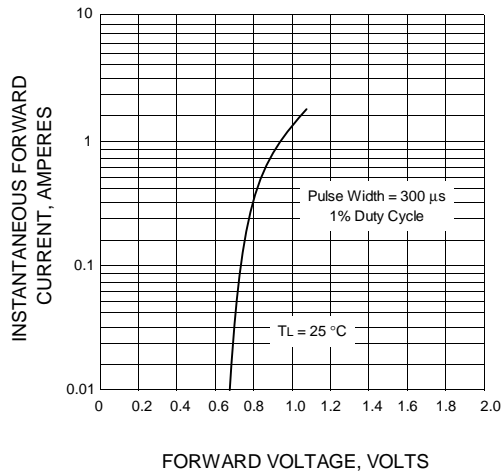


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

