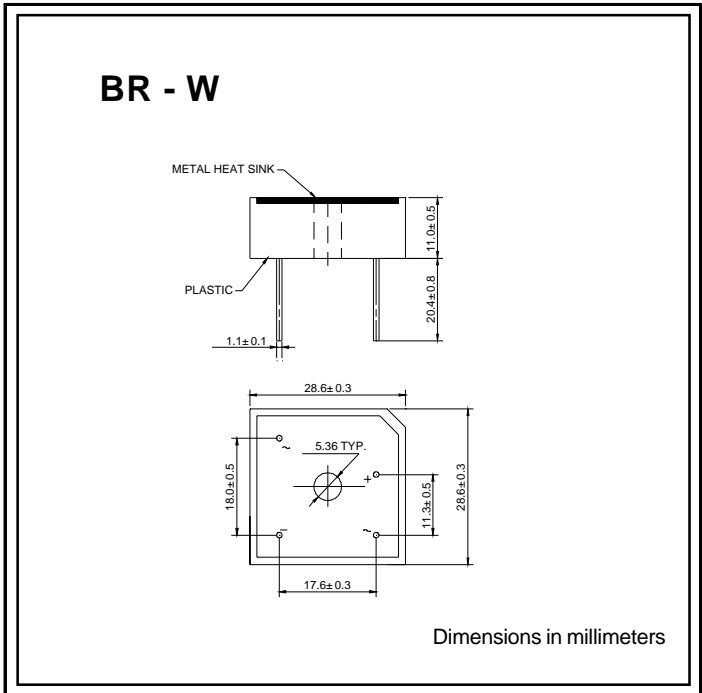


SILICON BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 35.0 A

- FEATURES**
- ◇ Rating to 1000V PRV
 - ◇ Surge overload rating to 400 Amperes peak
 - ◇ Ideal for printed circuit board
 - ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
 - ◇ Lead solderable per MIL-STD-202 method 208
 - ◇ Mounting: thru hole for # 8 screw mounting



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
 Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		BR 35005 (W)	BR 3501 (W)	BR 3502 (W)	BR 3504 (W)	BR 3506 (W)	BR 3508 (W)	BR 3510 (W)	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output current @ $T_A=50^\circ C$	$I_{F(AV)}$	35.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	400.0							A
Maximum instantaneous forward voltage @ 17.5 A	V_F	1.1							V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	10.0 1.0							μA mA
Operating junction temperature range	T_J	- 55 ---- + 125							$^\circ C$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^\circ C$

FIG.1 -- PEAK FORWARD SURGE CURRENT

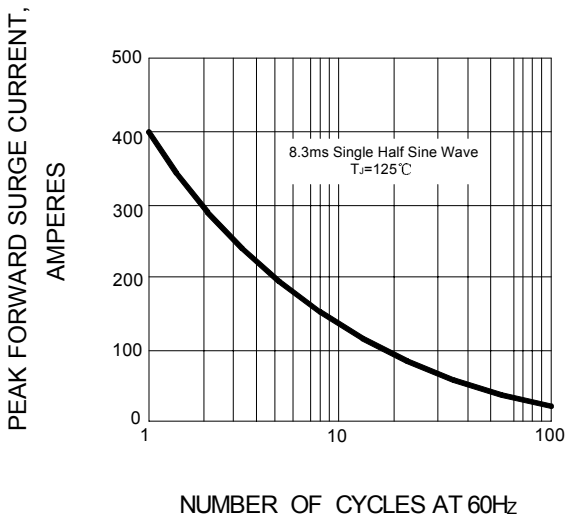


FIG.2 -- FORWARD DERATING CURVE

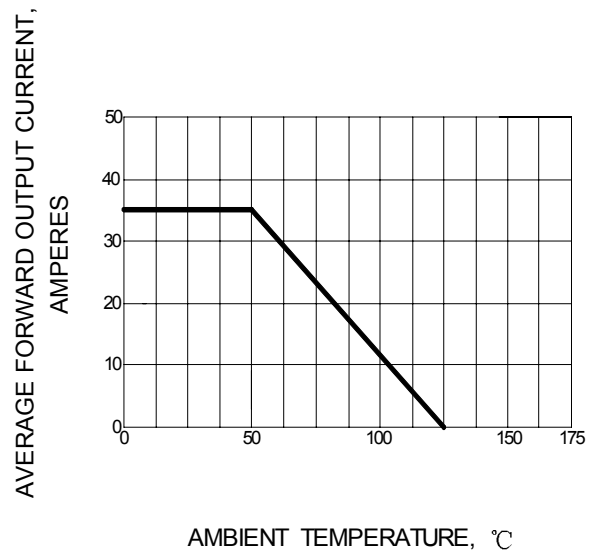


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

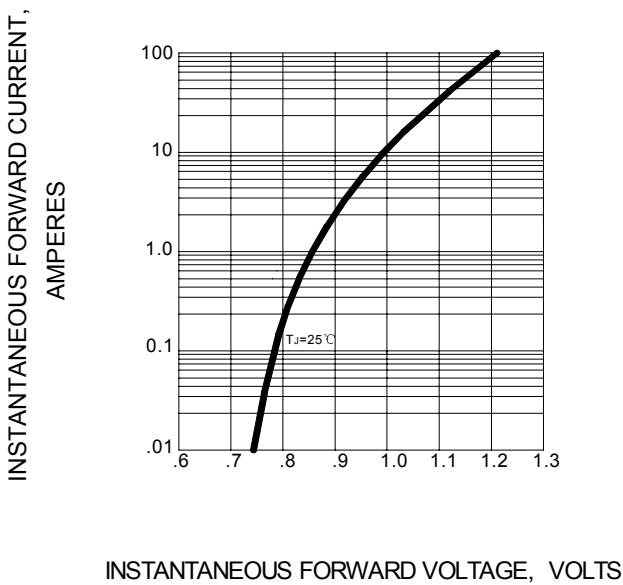


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

