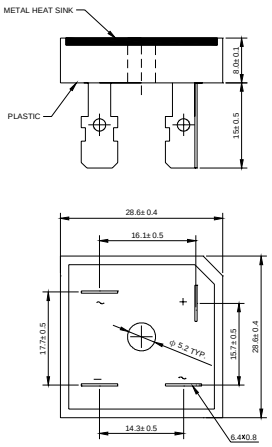
MP25005-MP2510

Silicon Bridge Rectifiers

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 25.0 A

MP



Dimensions in millimeters

Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 300 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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		MP 25005	MP 2501	MP 2502	MP 2504	MP 2506	MP 2508	MP 2510	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 forw ard Output current @T_A=25℃	$I_{F(AV)}$	25.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	300.0							A
Maximum instantaneous forw ard voltage at 12.50A	V_F	1.1							V
Maximum reverse current @T_A=25℃	I_R	10.0							μA
at rated DC blocking voltage @T_A=100℃		1.0							mA
Operating junction temperature range	T_J	- 55 ---- + 125							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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Ratings AND Charactieristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT

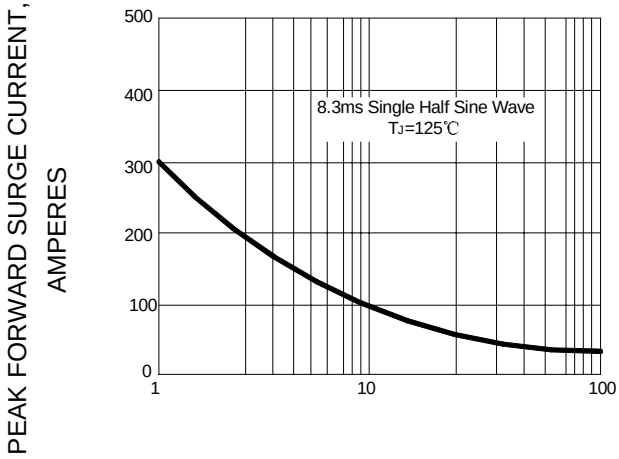

FIG.2 – FORWARD DERATING CURVE

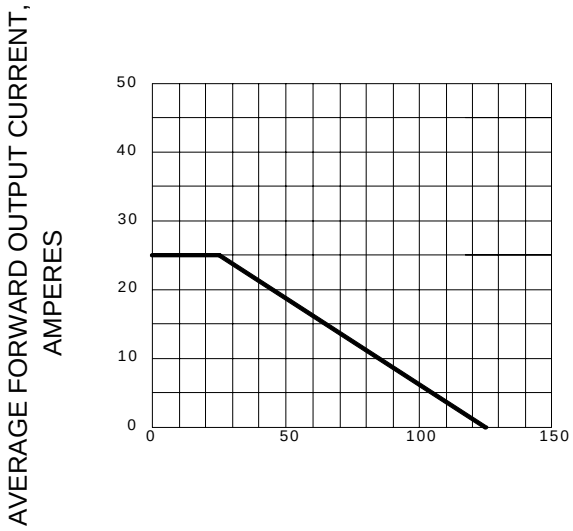

FIG.3 – TYPICAL FORWARD CHARACTERISTIC

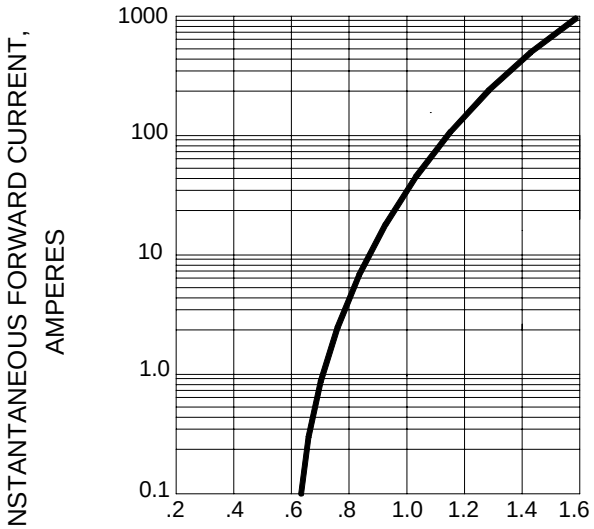

FIG.4 – TYPICAL REVERSE CHARACTERISTICS