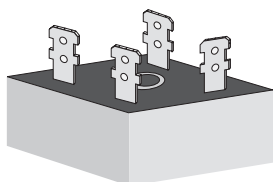


MB2505 THRU MB2510

SINGLE PHASE 25 AMP BRIDGE RECTIFIERS

**FEATURES**

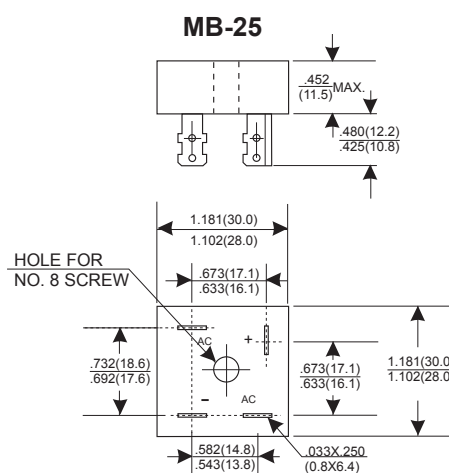
- * Superior thermal design
- * 300 amperes surge capability
- * Mounting: Hole thru for #8 screw
- * 1/4" universal faston terminal

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

25.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	MB2505	MB251	MB252	MB254	MB256	MB258	MB2510	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current									
.375"(9.5mm) Lead Length at Tc=55°C								25	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								300	A
Maximum Forward Voltage Drop per Bridge Element at 12.5AD.C.								1.1	V
Maximum DC Reverse Current Ta=25°C								10	μA
at Rated DC Blocking Voltage Ta=100°C								500	μA
Operating Temperature Range, Tj								-65 — +125	°C
Storage Temperature Range, Tstg								-65 — +150	°C

RATING AND CHARACTERISTIC CURVES (MB2505 THRU MB2510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

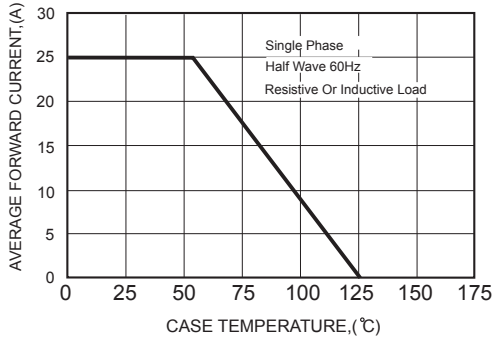


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

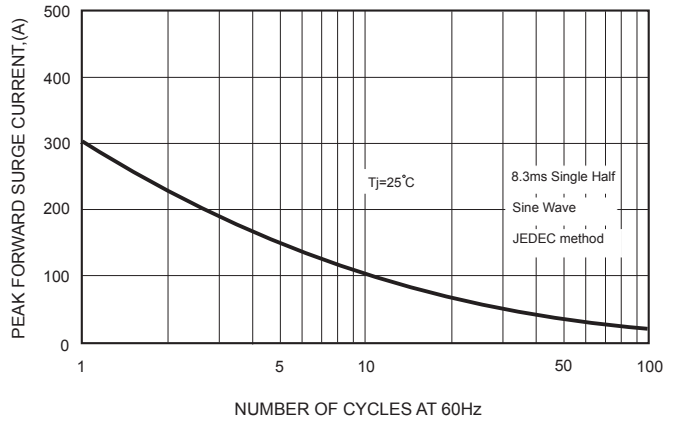


FIG.3-TYPICAL FORWARD CHARACTERISTICS

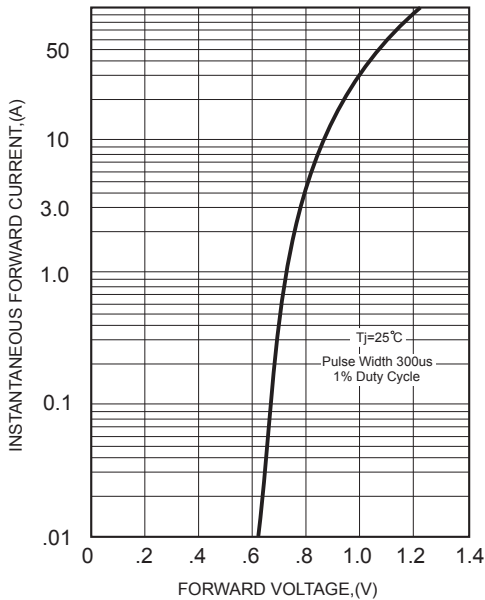


FIG.4-TYPICAL REVERSE CHARACTERISTICS

