

BR50005 THRU BR5010

SINGLE PHASE 50.0 AMP BRIDGE RECTIFIERS

FEATURES

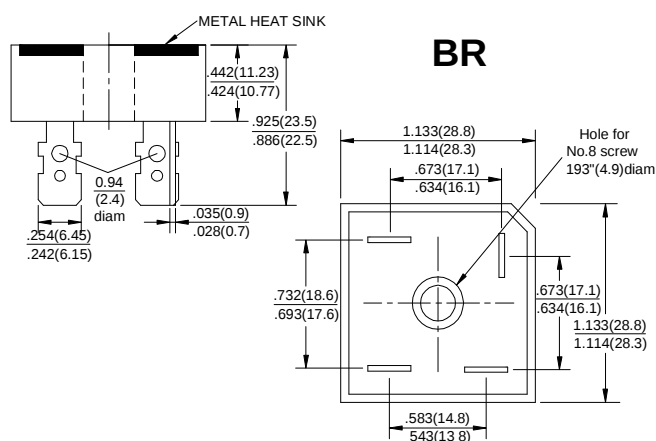
- Surge overload -450amperes peak
- Low forward voltage drop
- Mounting position: Any
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

50.0 Ampere



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	BR5005	BR5001	BR5002	BR5004	BR5006	BR5008	BR50010	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	50.0							A
.375"(9.5mm) Lead Length at Tc=50°C	50.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	450							A
Maximum Forward Voltage Drop per Bridge Element at 25A D.C.	1.2							V
Maximum DC Reverse Current Ta=25°C	10							uA
at Rated DC Blocking Voltage Ta=100°C	100							uA
Operating Temperature Range, Tj	-65 — +150							°C
Storage Temperature Range, Tstg	-65 — +150							°C

RATING AND CHARACTERISTIC CURVES (BR50005 THRU BR5010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

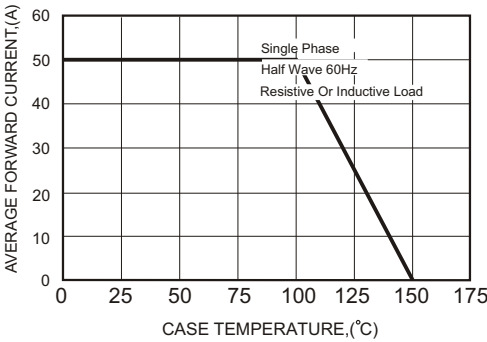


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

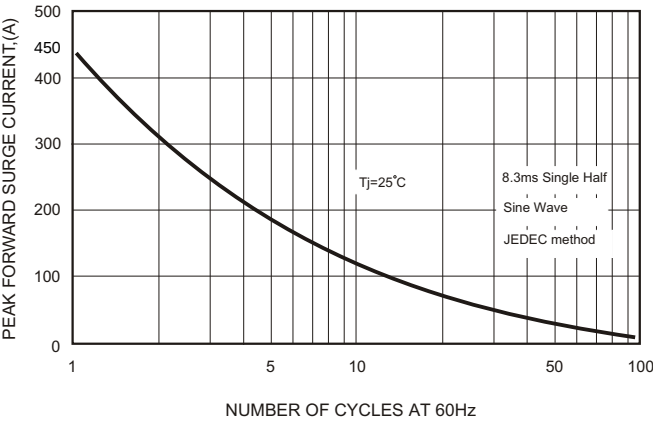


FIG.3-TYPICAL FORWARD CHARACTERISTICS

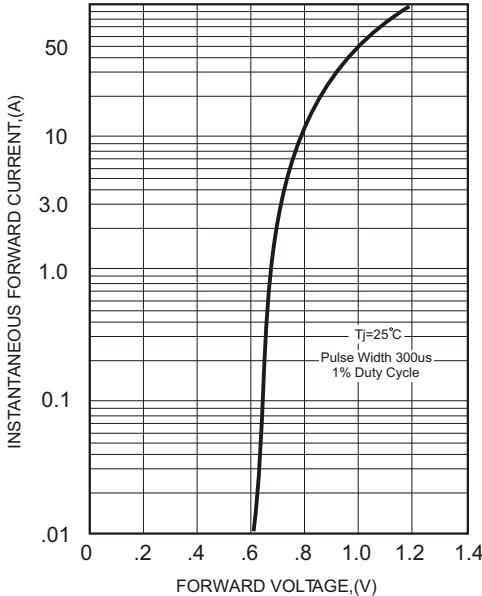


FIG.4-TYPICAL REVERSE CHARACTERISTICS

