



Ruttonsha International Rectifier Ltd.

35 AMPERE SINGLE PHASE BRIDGE

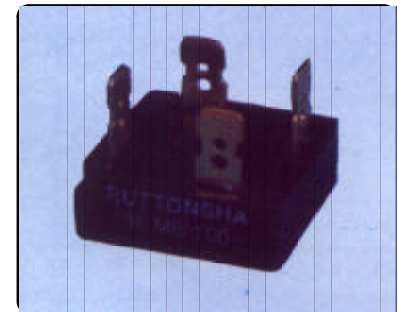
Type : 36MB5A - 36MB120A

FEATURES

- ❖ Universal, 3 way terminals; snap-on, warp around or solder.
- ❖ High thermal conductivity, electrically insulated case.
- ❖ Central hole fixing.
- ❖ Excellent power / volume ratio.

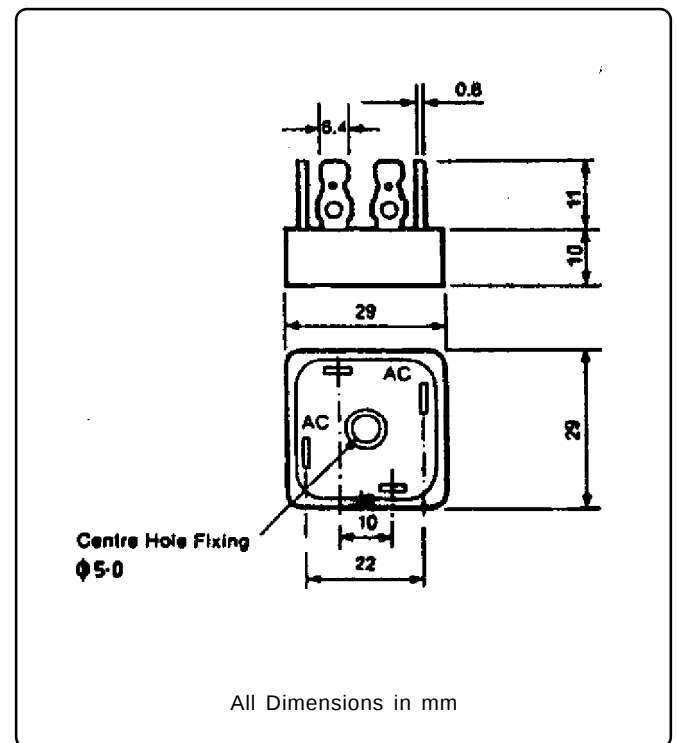
ELECTRICAL RATINGS & CHARACTERISTICS

$I_{O(AV)}$	Maximum average output current $T_c = 60^\circ\text{C}$; resistive, inductive load (R) capacitive load (C)	35 A 28 A
I_{FSM}	Maximum peak one cycle, non-repetitive forward current; 20ms	400 A
I^2t	Maximum I^2t for fuse selection; 10ms, 8.3ms	800 A ² s
V_{FM}	Maximum peak forward voltage drop per diode, $I_{O(peak)} = 55 \text{ A}$	1.2 V
I_{RM}	Maximum peak reverse current per diode at rated V_{RRM} $T_J = 25^\circ\text{C}$ $T_J = T_{J \text{ max}}$	100 μA 2.0 mA
V_{INS}	RMS isolation voltage, circuit to base	2700 V



THERMAL & MECHANICAL DATA

T	Operating and storage temperature range 36MB5A -36MB60A 36MB80A -36MB120A	-40 to +170°C -40 to +150°C
R_{thjc}	Thermal impedance, junction to case 36MB5A -36MB60A 36MB80A -36MB120A	1.4 deg. C/W 1.2 deg. C/W
R_{thcs}	Thermal resistance, case to sink (greased)	0.2 deg. C/W
f	Operating frequency range	40 to 1000 Hz
W	Approximate weight	20 gms.

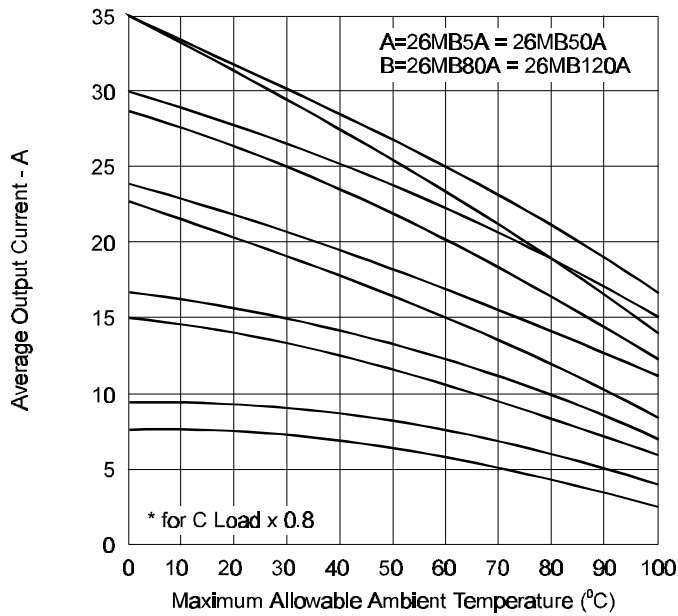


VOLTAGE & APPLICATION DATA

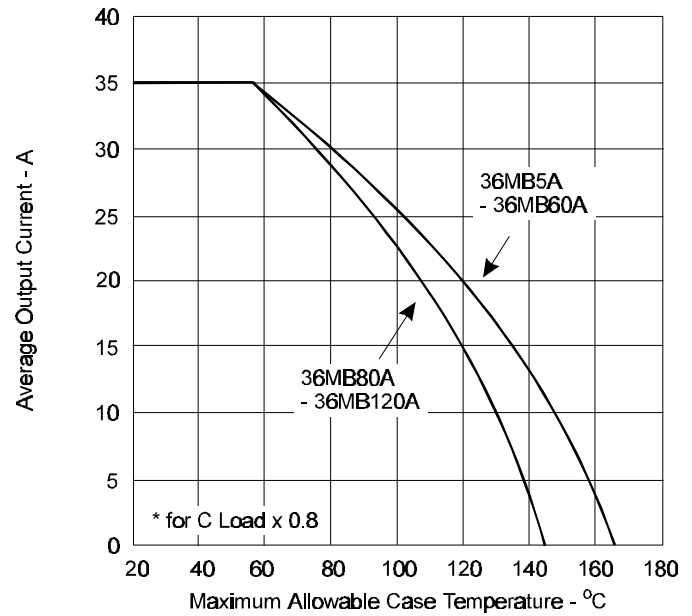
TYPE	NUMBER	36MB5A	36MB10A	36MB20A	36MB40A	36MB60A	36MB80A	36MB100A	36MB120A
V_{RRM}	Maximum repetitive peak reverse voltage (V)	50	100	200	400	600	800	1000	1200
V_{RSM}	Maximim non-repetitive peak reverse voltage (V)	100	150	300	500	700	900	1100	1300

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**Fig. 1 - Current Ratings
(Resistive / Inductive Load)***



**Fig. 2 - Case Temperature Ratings
(Resistive / Inductive Load)***

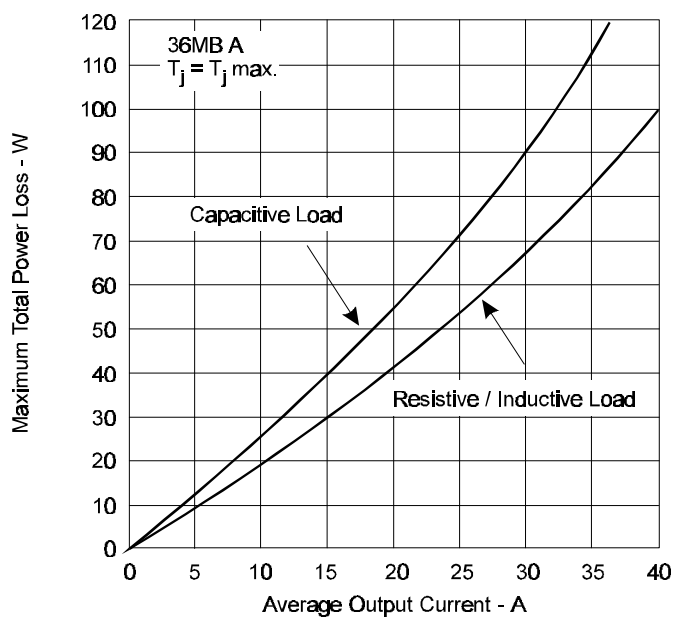


Fig. 3 - Power Characteristics

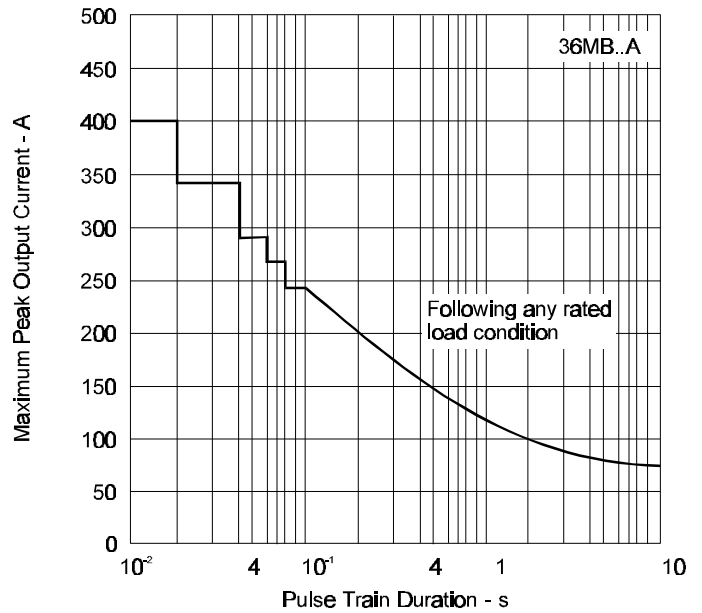


Fig. 4 - Non Repetitive Surge Current Ratings