



# Ruttonsha International Rectifier Ltd.

## 35 AMPERE SINGLE PHASE BRIDGE

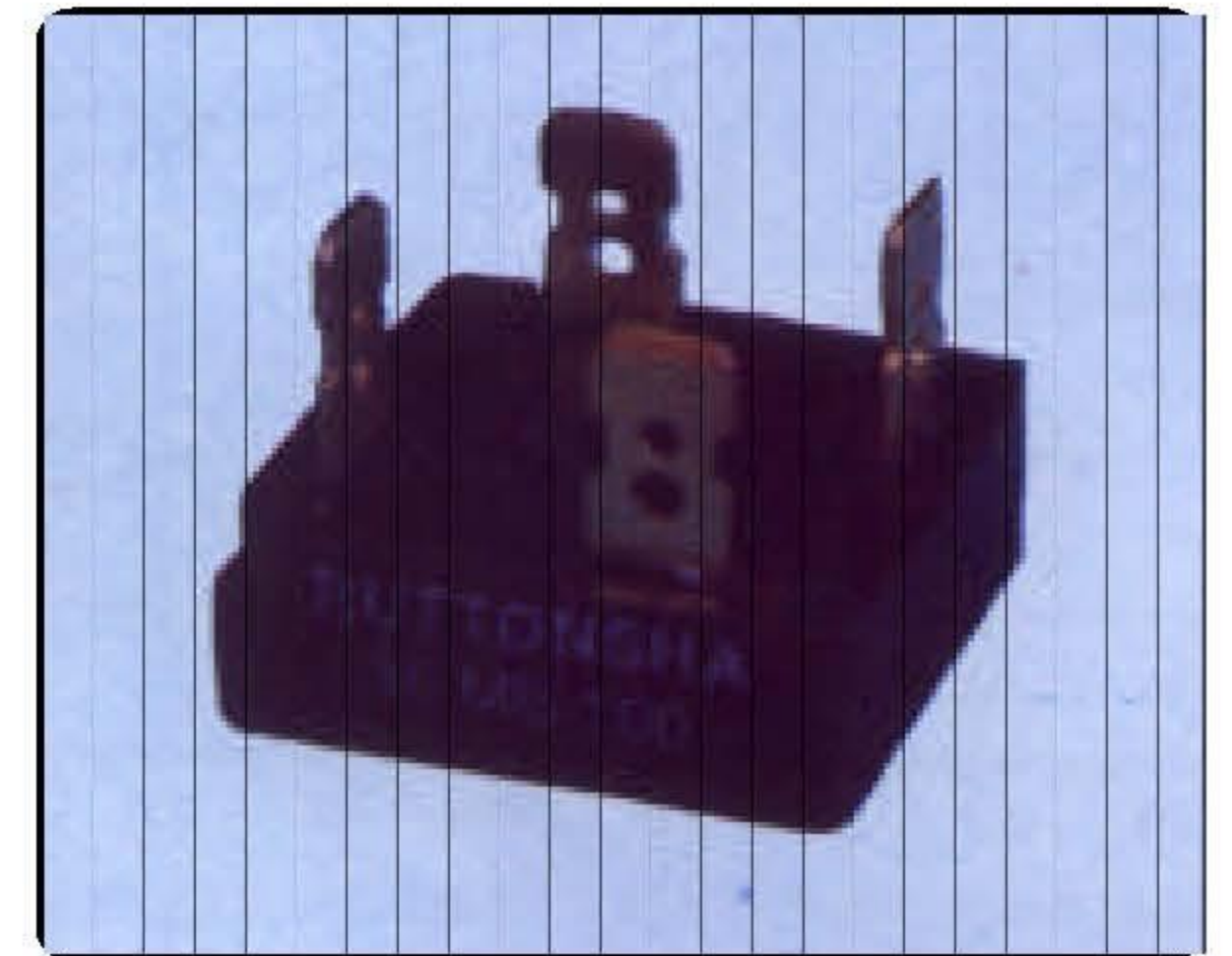
### Type : 36MB5A - 36MB120A

#### FEATURES

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

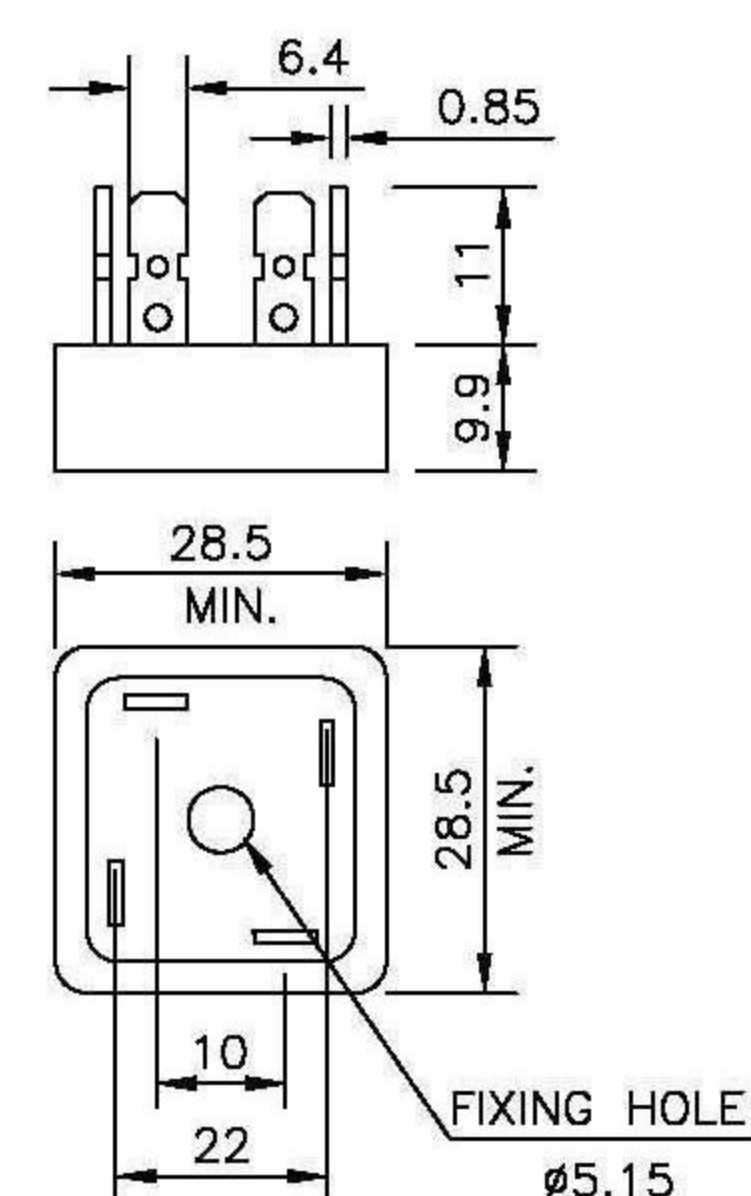
#### ELECTRICAL RATINGS & CHARACTERISTICS

$I_{O(AV)}$	Maximum average output current $T_{case} = 55^{\circ}C$ ; resistive, inductive load (R) capacitive load (C)	35 A 28 A
$I_{FSM}$	Maximum peak one cycle, non-repetitive forward current; 20ms 16.7ms	400 A 440 A
$I^2t$	Maximum $I^2t$ for fuse selection; 10ms, 8.3ms	800 A <sup>2</sup> s
$V_{FM}$	Maximum peak forward voltage drop per diode, $I_{O(AV)} = 35 A$ (55 Apk)	1.2 V
$I_{RM}$	Maximum peak reverse current per diode at rated $V_{RRM}$ $T_J = 25^{\circ}C$ $T_J = T_{Jmax}$	100 $\mu A$ 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.



All Dimensions in mm

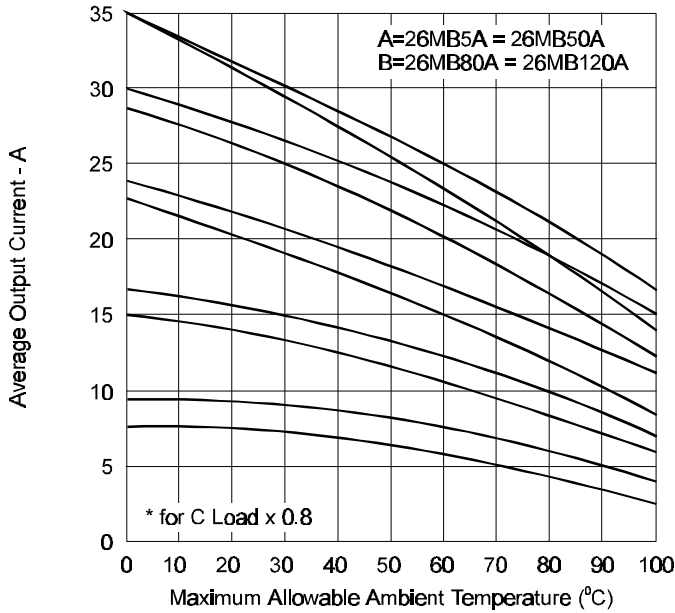
#### VOLTAGE & APPLICATION DATA

TYPE NUMBER	36MB5A	36MB10A	36MB20A	36MB40A	36MB60A	36MB80A	36MB100A	36MB120A
$V_{RRM}$	50	100	200	400	600	800	1000	1200
$V_{RSM}$	100	150	300	500	700	900	1100	1300

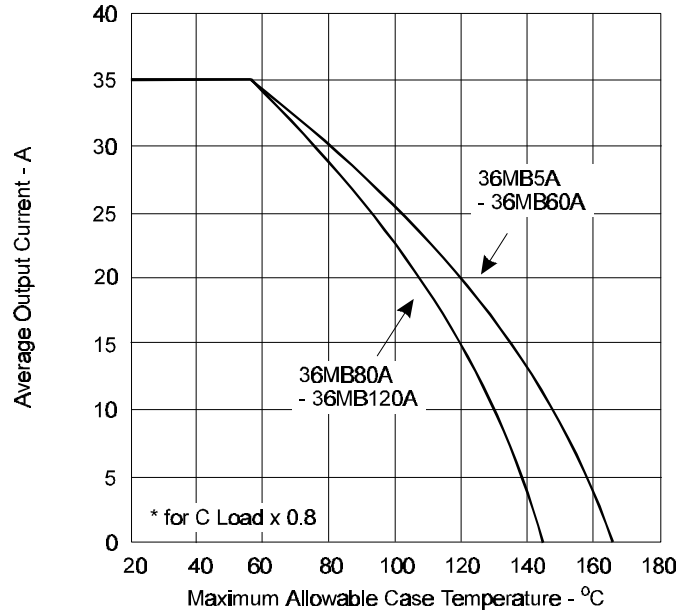


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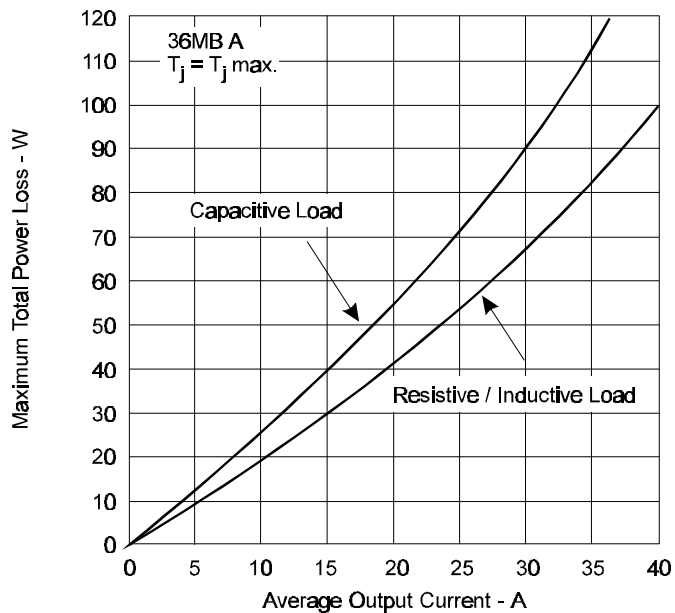
Type : 36MB5A - 36MB120A



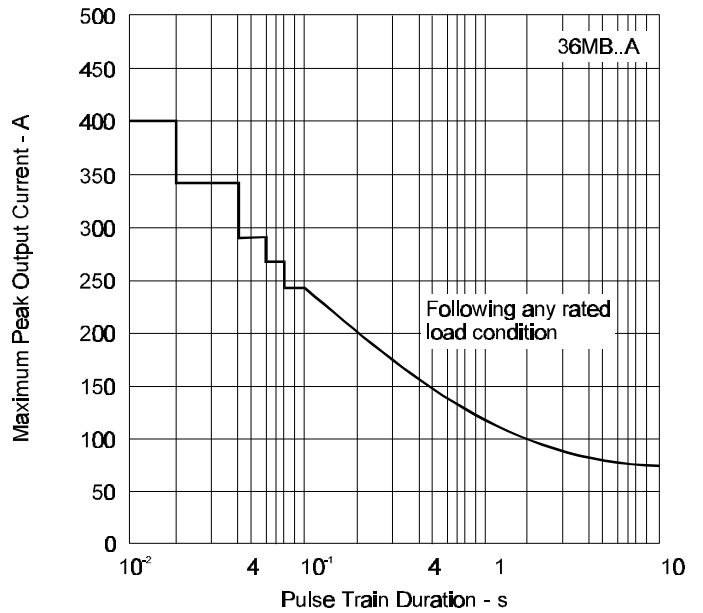
**Fig. 1 - Current Ratings  
(Resistive / Inductive Load)\***



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



**Fig. 3 - Power Characteristics**



**Fig. 4 - Non Repetitive Surge Current Ratings**