



Ruttonsha International Rectifier Ltd.

35 AMPERE THREE PHASE BRIDGE

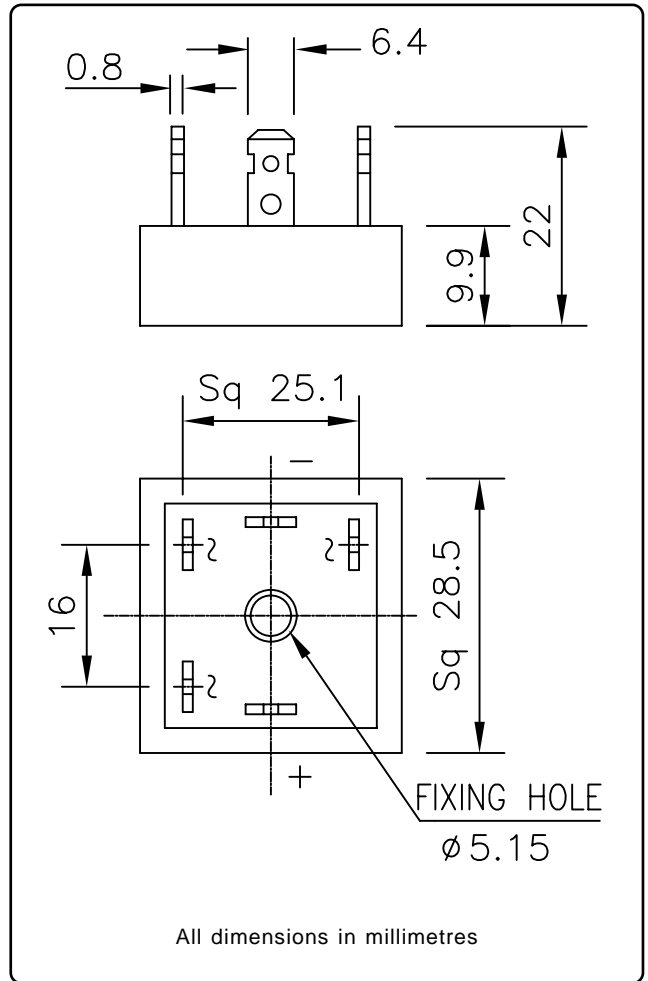
Type : 36MT10 - 36MT120

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 $T_{case} = 60^{\circ}C$; resistive, inductive load (R) capacitive load (C)	35 A 28 A
I_{FSM}	Maximum peak one cycle, non-repetitive forward current; 10ms	475 A
I^2t	Maximum I^2t for fuse selection; 10ms, 8.3ms	1130 A ² s
V_{FM}	Maximum peak forward voltage drop per diode, $I_{O(PEAK)} = 40 A$	1.19 V
I_{RM}	Maximum peak reverse current per diode at rated V_{RRM} $T_J = 25^{\circ}C$ $T_J = T_{Jmax}$	100 μA 2.0 mA
V_{INS}	RMS isolation voltage, circuit to base	2700 V



THERMAL & MECHANICAL DATA

T	Operating and storage temperature range	-40 to +150°C
R_{thjc}	Thermal impedance, junction to case	1.16 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	36MT10	36MT20	36MT40	36MT60	36MT80	36MT100	36MT120
V_{RRM}	Maximum repetitive peak reverse voltage (V)	100	200	400	600	800	1000	1200
V_{RSM}	Maximum non-repetitive peak reverse voltage (V)	150	300	500	700	900	1100	1300

THREE PHASE BRIDGE RECTIFIER

Type : 36MT10 - 36MT120

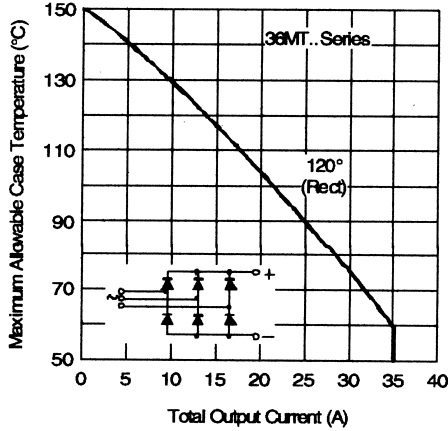


Fig. 1 - Current Ratings Characteristics

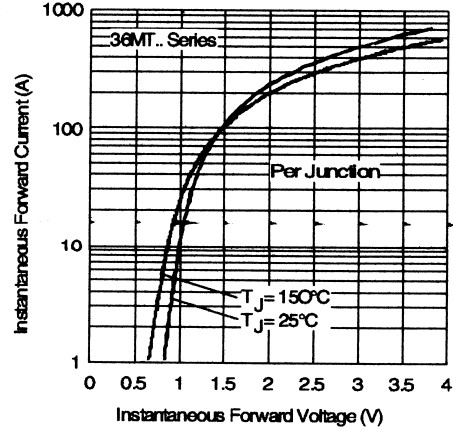


Fig. 2 - Forward Voltage Drop Characteristics

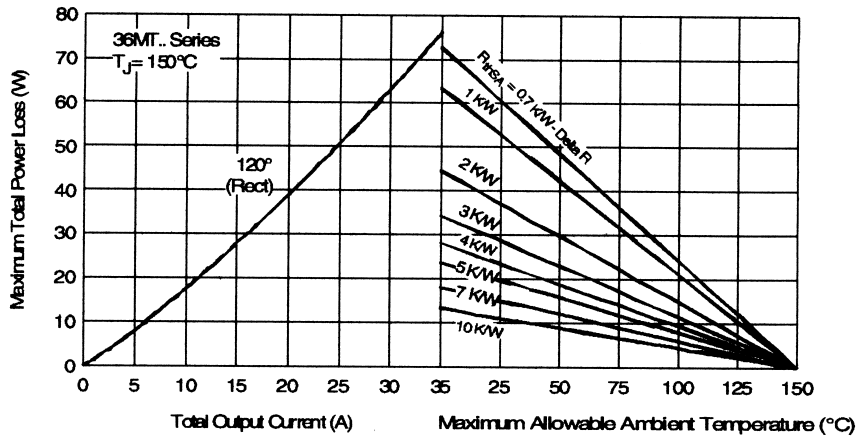


Fig. 3 - Total Power Loss Characteristics

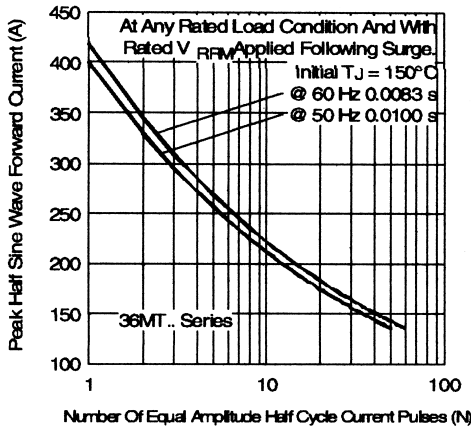


Fig. 4 - Maximum Non-Repetitive Surge Current

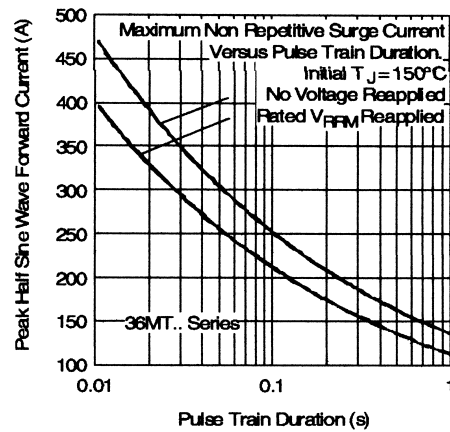


Fig. 5 - Maximum Non-Repetitive Surge Current