

Features:

- Non-Isolated. Mounting base as common anode cathode terminal.
- Pressure contact technology with Increased power cycling capability
- Low forward voltage drop

Typical Applications

- Welding Power Supply
- Various Dc power supplies.

$I_{F(AV)}$	300 A
V_{RRM}	800~1800 V
I_{FSM}	10 A × 10³
I^2t	500 A² S × 10³



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T _c =100°C	150			300	A
$I_{F(RMS)}$	RMS forward current		150			471	A
V_{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V	150	800		1800	V
I_{RRM}	Repetitive peak current	at V _{RRM}	150			25	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			10	KA
I^2t	i ² T for fusing coordination	V _R =0.6V _{RRM}				500	A ² s*10 ³
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					0.64	mΩ
V_{FM}	Peak forward voltage	I _{FM} =900A	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.130	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.04	°C /W
F_m	Terminal connection torque(M8)				12		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				680		g
Outline	404F4/407F2						

Peak forward Voltage Vs. Peak forward Current

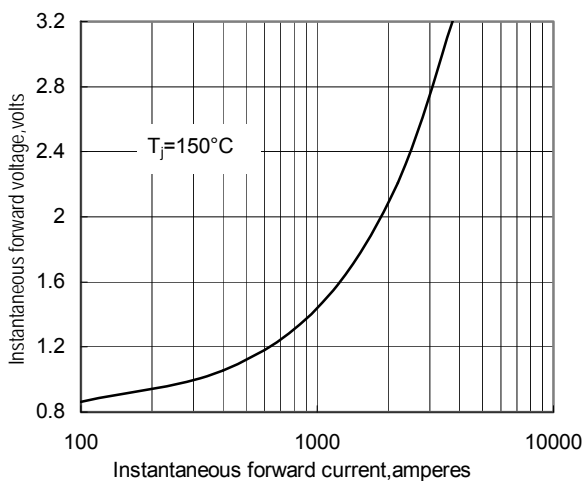


Fig.1

Max. junction To case Thermal Impedance Vs. Time

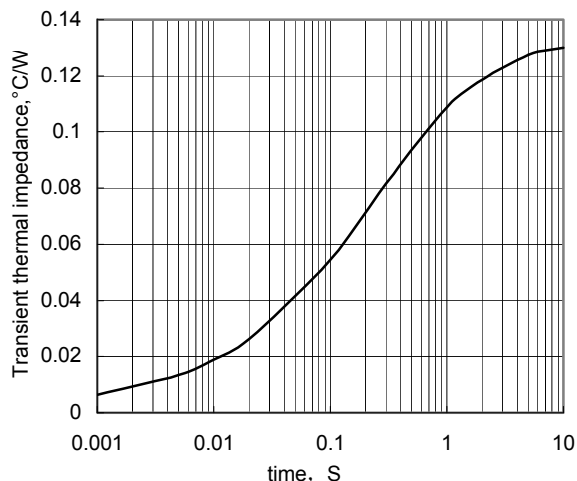


Fig.2

Max. Power Dissipation Vs. Mean forward Current

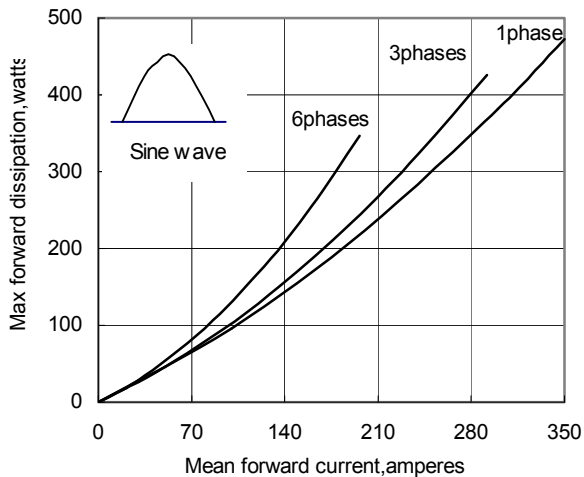


Fig.3

Max. case Temperature Vs. Mean forward Current

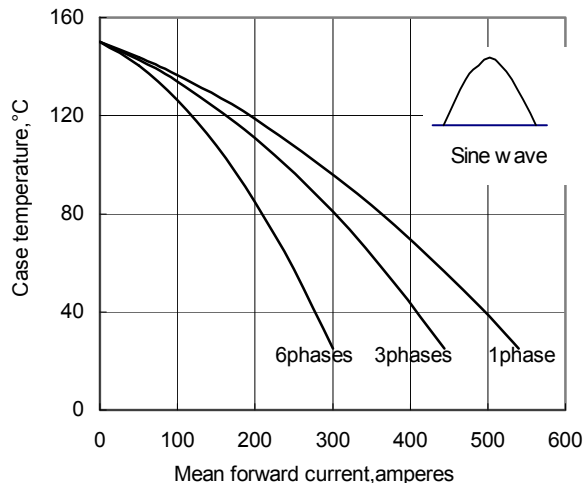


Fig.4

Max. Power Dissipation Vs. Mean forward Current

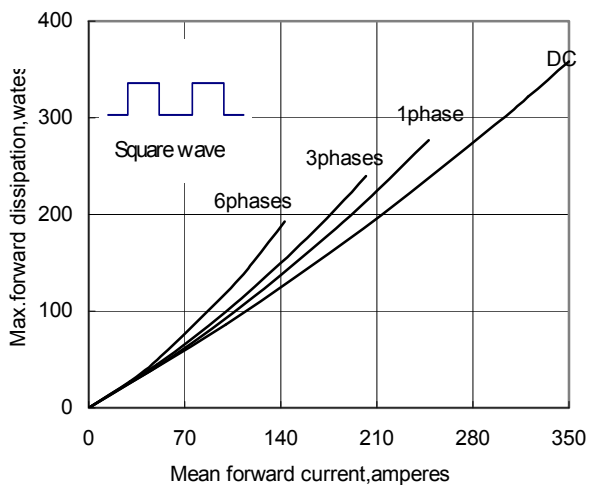


Fig.5

Max. case Temperature Vs. Mean forward Current

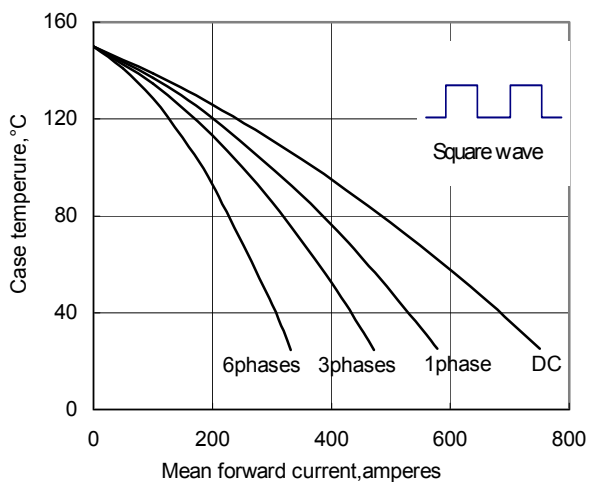


Fig.6

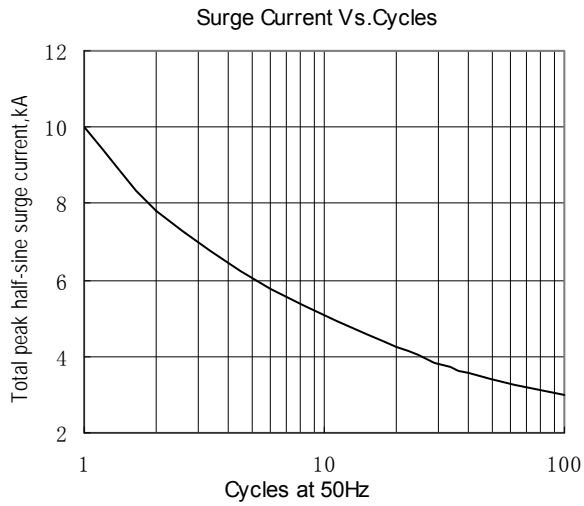


Fig.7

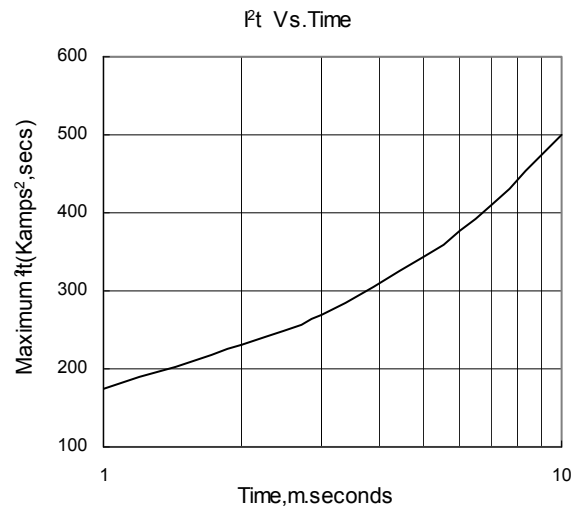
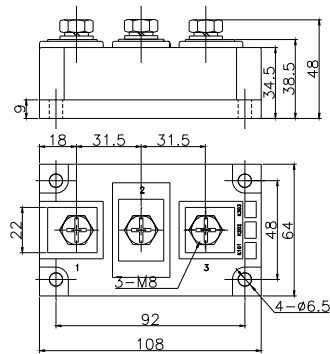


Fig.8

Outline:



404F4

