

Features:

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

Typical Applications

- Welding Power Supply
- Various Dc power supplies.

$I_{F(AV)}$	50 A
V_{RRM}	800~1800 V
I_{FSM}	$1.4 A \times 10^3$
I^2t	$10 A^2 S \times 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^{\circ}C$	150			50	A
$I_{F(RMS)}$	RMS forward current		150			79	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			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.40	KA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$				10	$A^2s \times 10^3$
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					4.78	mΩ
V_{FM}	Peak forward voltage	$I_{FM} = 150A$	25			1.60	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.700	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.1	$^{\circ}C/W$
F_m	Terminal connection torque(M5)				4		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight				220		g
Outline	208F4						

Peak forward Voltage Vs. Peak forward Current

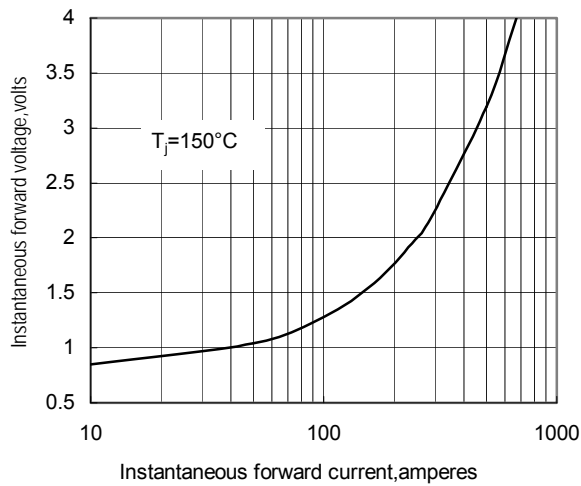


Fig.1

Max. junction To case Thermal Impedance Vs. Time

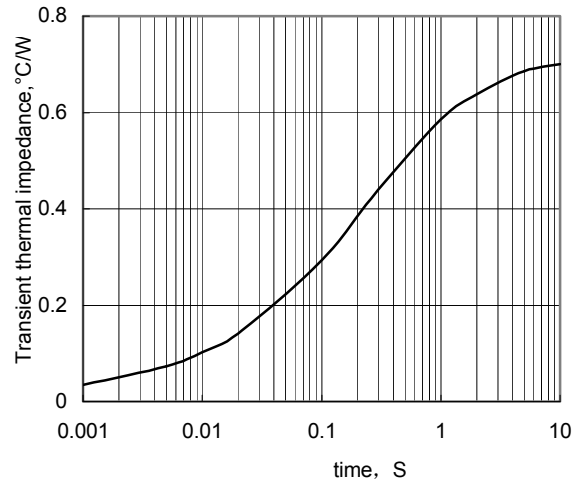


Fig.2

Max. Power Dissipation Vs. Mean forward Current

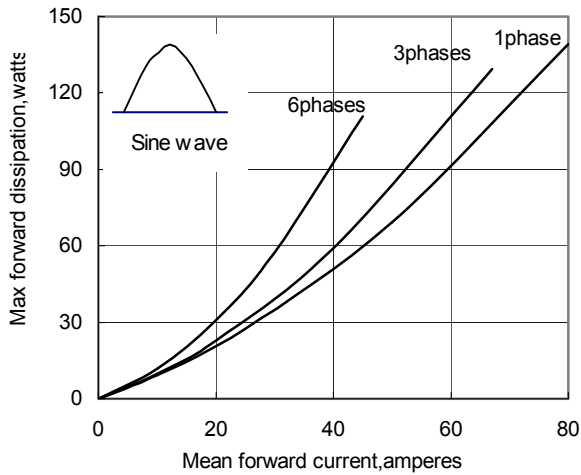


Fig.3

Max. case Temperature Vs. Mean forward Current

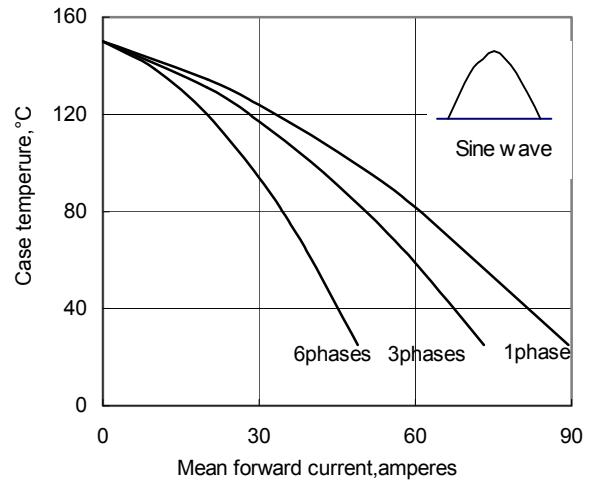


Fig.4

Max. Power Dissipation Vs. Mean forward Current

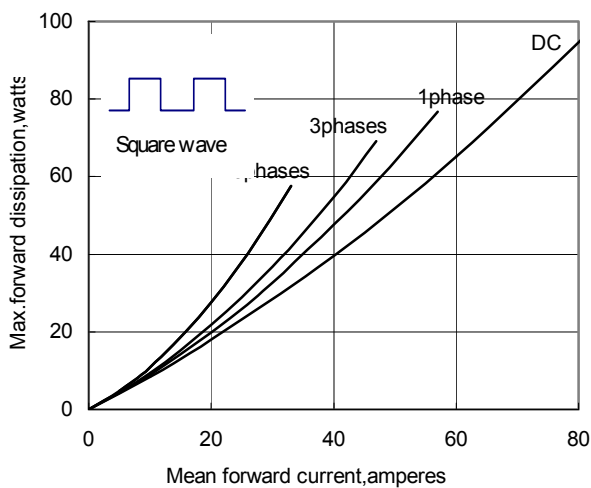


Fig.5

Max. case Temperature Vs. Mean forward Current

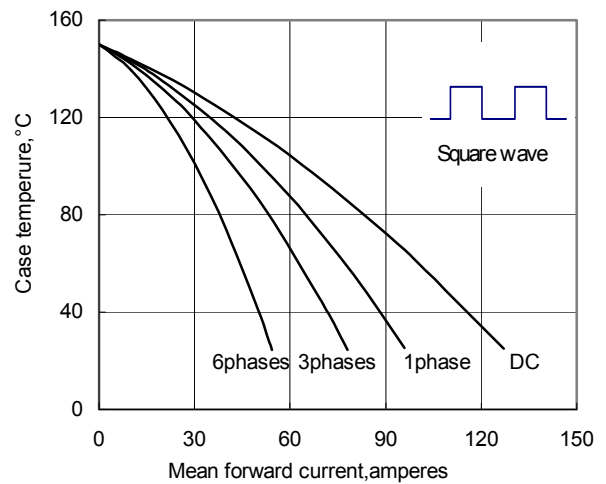


Fig.6

Surge Current Vs.Cycles

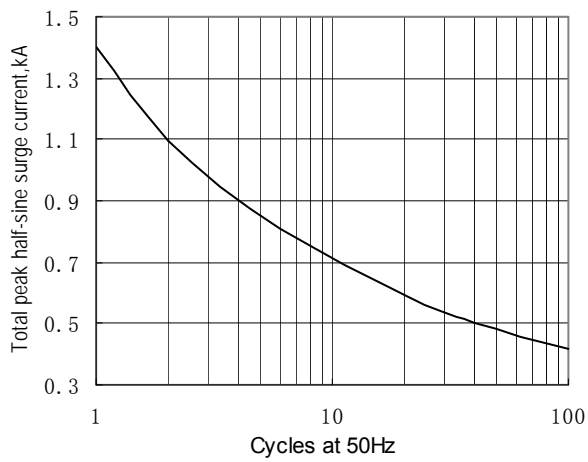


Fig.7

I^2t Vs.Time

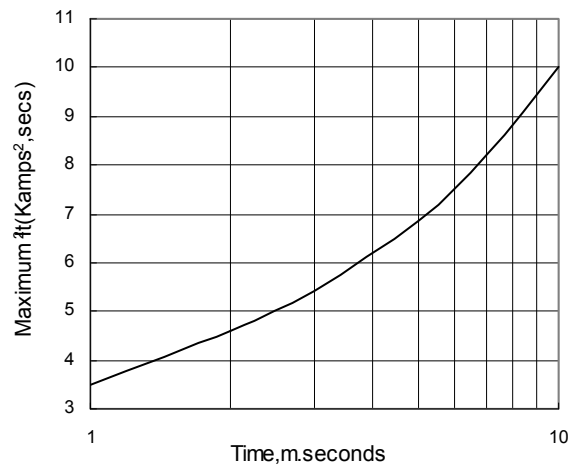
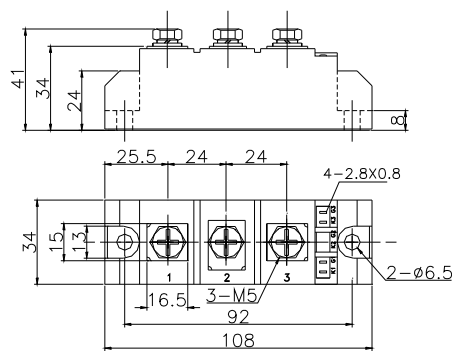


Fig.8

Outline:



208F4

