

Features:

- Isolated mounting base 3000V~
- Pressure contact technology with
Increased power cycling capability
- Space and weight savings

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	40A
V_{RRM}	1900~2500V
I_{FSM}	$1.0 A \times 10^3$
I^2t	$5.0 A^2 S \times 10^3$



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			40	A
$I_{F(RMS)}$	RMS forward current		150			63	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+100V$	150	1900		2500	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.0	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$					5.0
V_{FO}	Threshold voltage		150			0.85	V
r_F	Forward slop resistance						4.50
V_{FM}	Peak forward voltage	$I_{FM}=120A$	25			1.59	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.90	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine: Single side cooled				0.2	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$		3000			V
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					115	g
Outline	215F3/223F3						

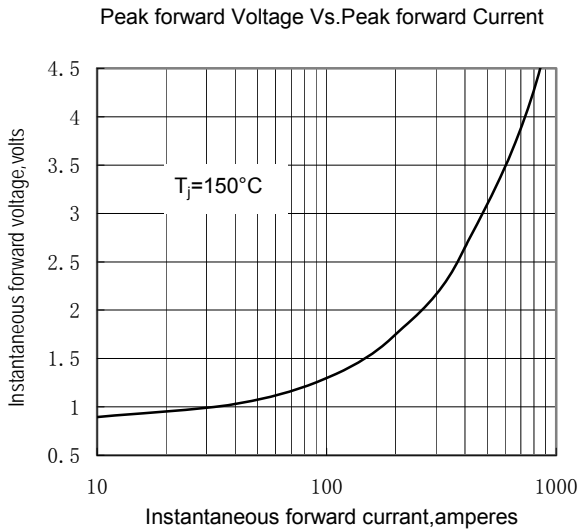


Fig.1

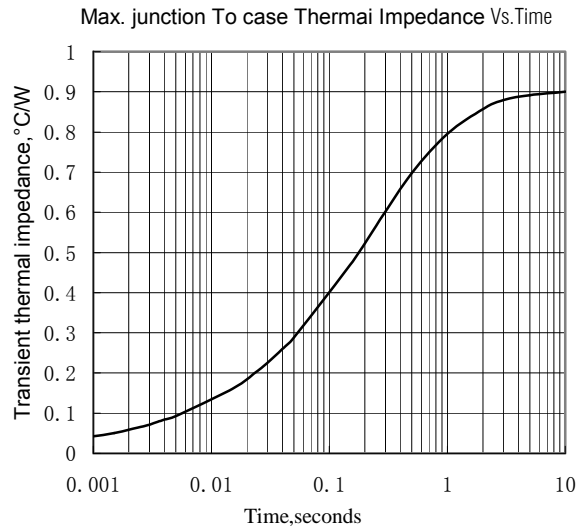


Fig.2

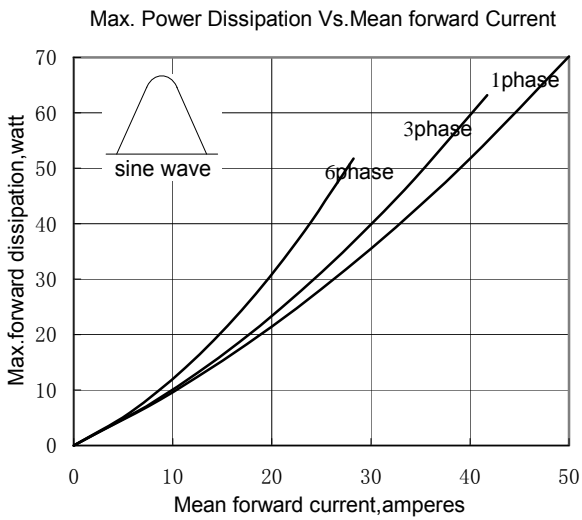


Fig.3

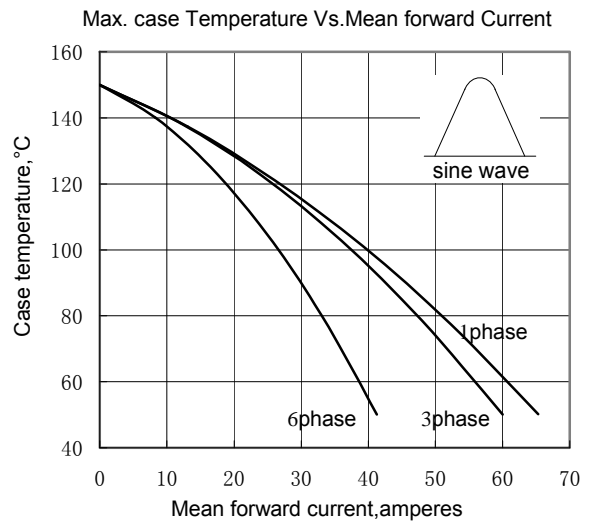


Fig.4

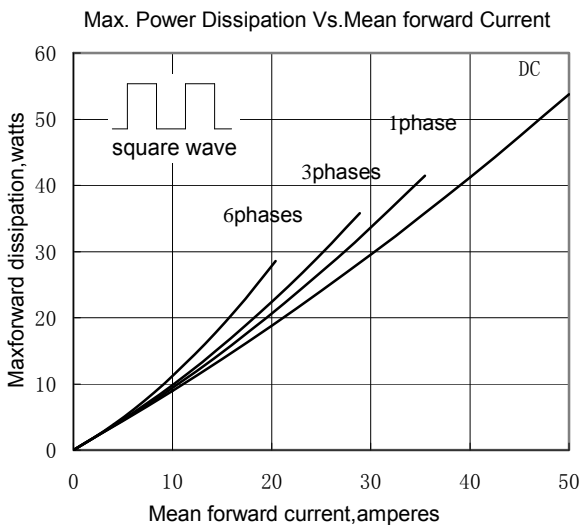


Fig.5

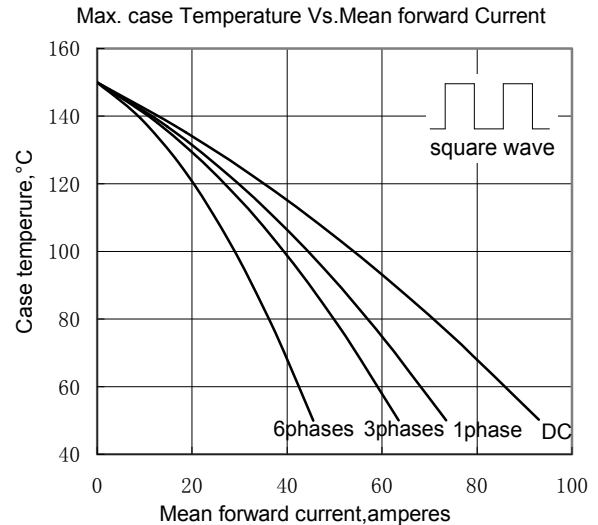


Fig.6

Surge Current Vs.Cycles

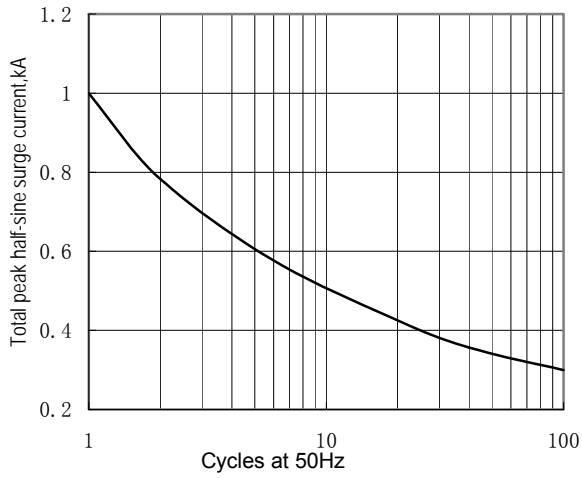


Fig.7

I^2t Vs.Time

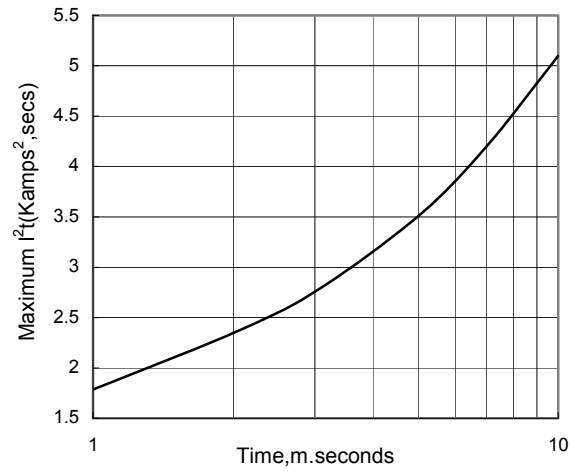
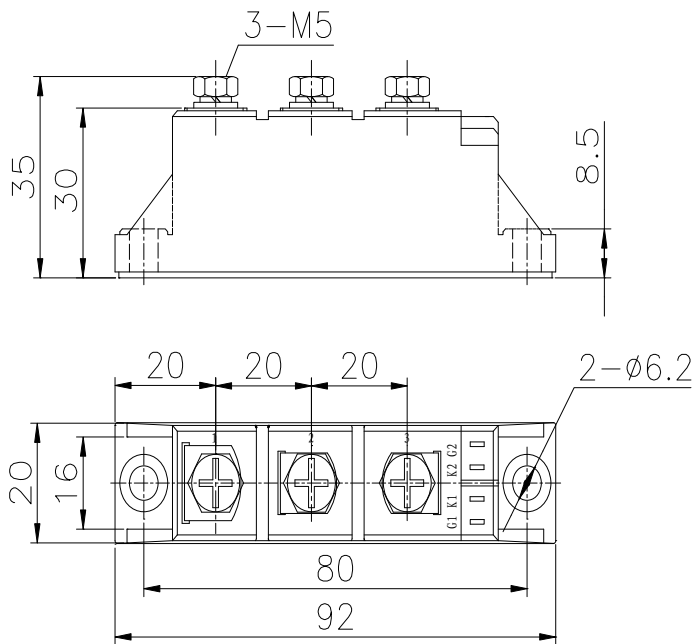


Fig.8

Outline:



215F3

