

Features:

- Isolated mounting base 2500V~
- Pressure contact technology with increased power cycling capability
- Space and weight savings

Typical Applications

- Inverter
- Inductive heating
- Chopper

$I_{F(AV)}$	200 A
V_{RRM}	600~1600 V
I_{FSM}	5.50 A $\times 10^3$
I^2t	151 A 2 S $\times 10^3$



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, $T_c=100^\circ C$	140			200	
I_F (RMS)	RMS forward current		140			314	
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+100V$	140	600		1600	V
I_{RRM}	Repetitive peak current	at V_{RRM}	140			40	mA
I_{FSM}	Surge forward current	10ms half sine wave	140			5.5	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				151	A 2 s $\times 10^3$
V_{FO}	Threshold voltage		140			0.85	V
r_F	Forward slop resistance					0.92	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=600A$	25			1.58	V
t_{rr}	Reverse recovery time	$I_{FM}=200A$, tp=1000μs, -di/dt=20A/μs, $V_R=50V$	140		3.0		μs
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.150	°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				860		g
Outline				413F3			

Peak forward Voltage Vs. Peak forward Current

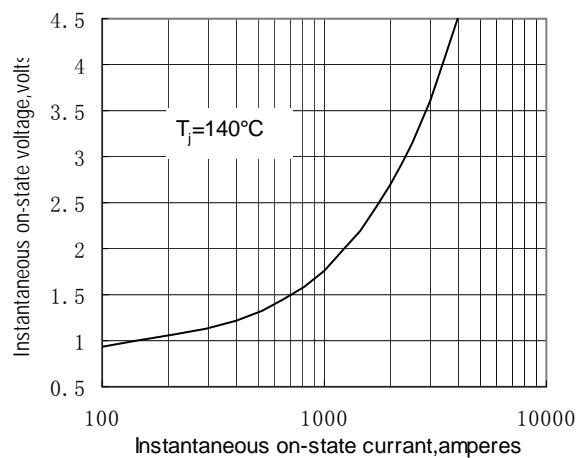


Fig.1

Max. junction To case Thermal Impedance Vs. Time

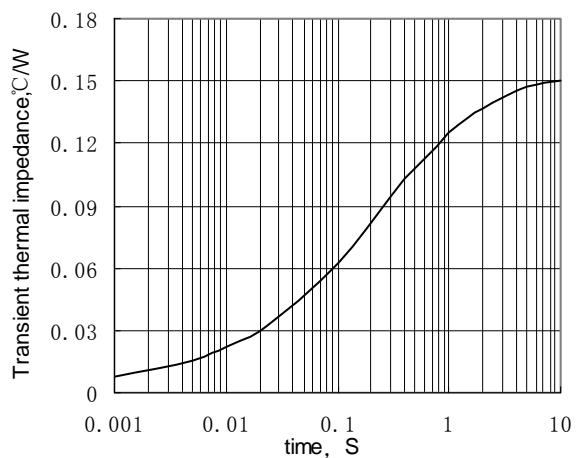


Fig.2

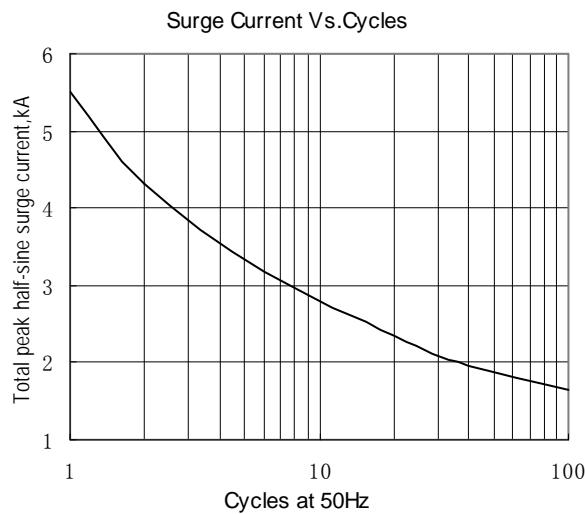


Fig.3

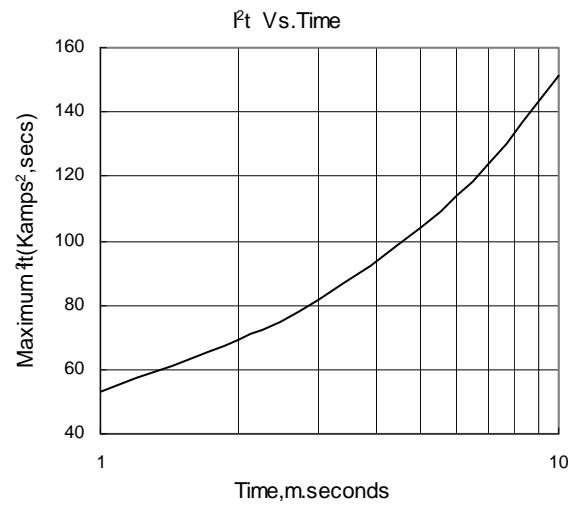
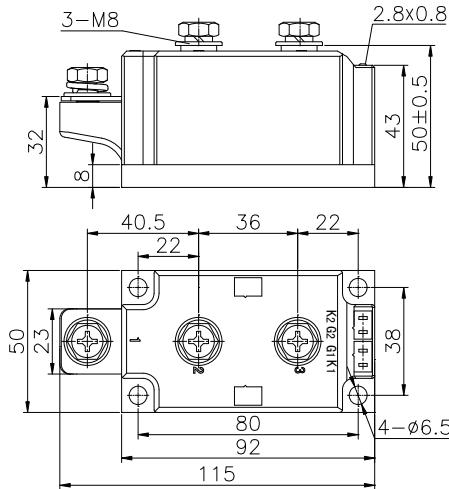


Fig.4

Outline:



413F3

