



Features:

- n Isolated mounting base 2500V~
- n Solder joint technology with Increased power cycling capability
- n Space and weight saving

Typical Applications

- n Inverter
- n Inductive heating
- n Chopper

V_{RSM}	V_{RRM}	Type & Outline
900V	800V	MDS175-08
1100V	1000V	MDS175-10
1300V	1200V	MDS175-12
1500V	1400V	MDS175-14
1700V	1600V	MDS175-16
1900V	1800V	MDS175-18

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Three-phase full wave rectifying circuit, $T_c=100^{\circ}\text{C}$	150			175	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			12	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.5	KA
I^2t	I^2t for fusing coordination	$V_R=0$				11.5	$\text{A}^2\text{s} \times 10^3$
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slop resistance					2.2	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=175\text{A}$	25			1.35	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.12	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.07	$^{\circ}\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA}(\text{max})$		2500			V
F_m	Terminal connection torque(M6)				6.0		N·m
	Mounting torque(M5)				4.0		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}\text{C}$
W_t	Weight				425		g
Outline	411H5 /221H5						

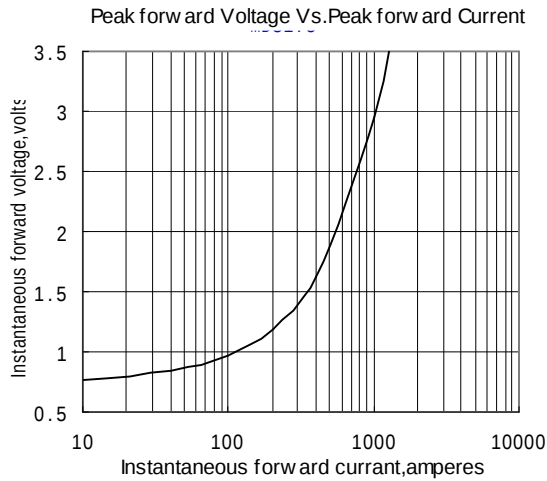


Fig.1

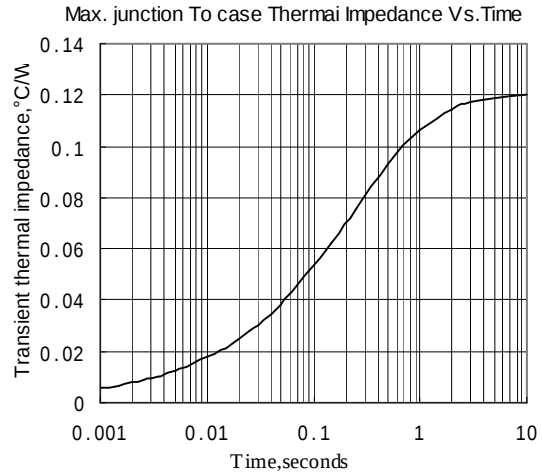


Fig.2

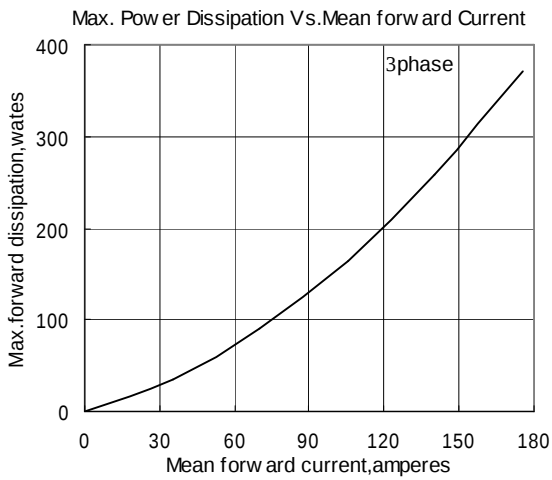


Fig.3

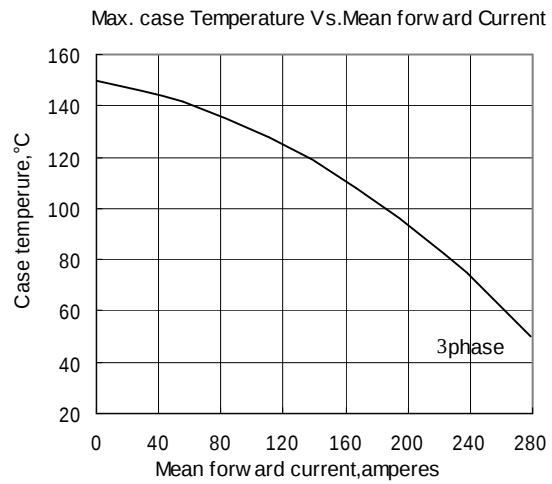


Fig.4

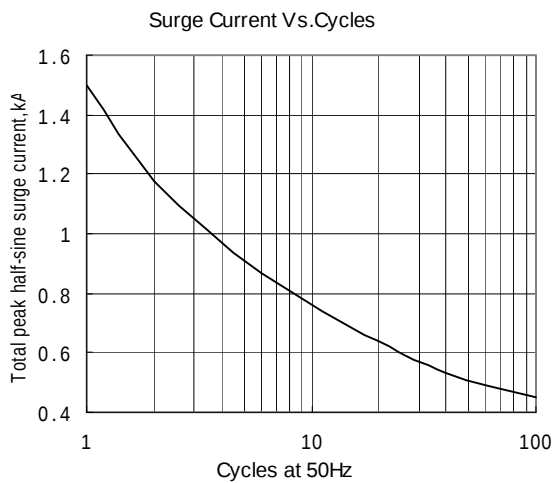


Fig.5

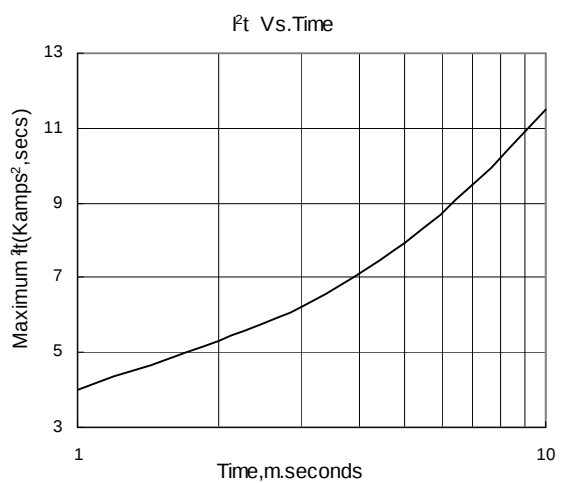
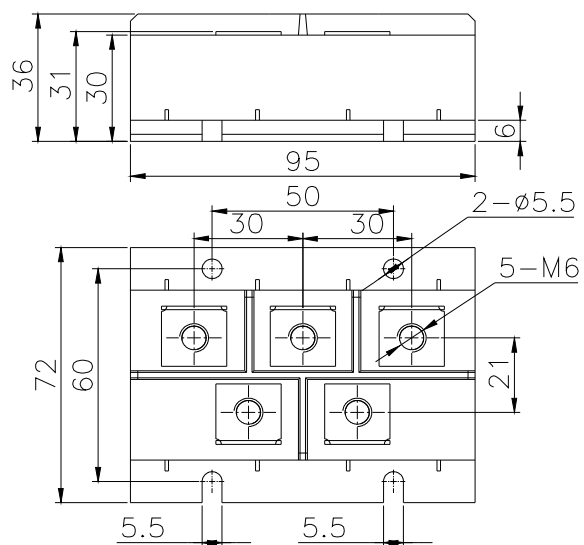
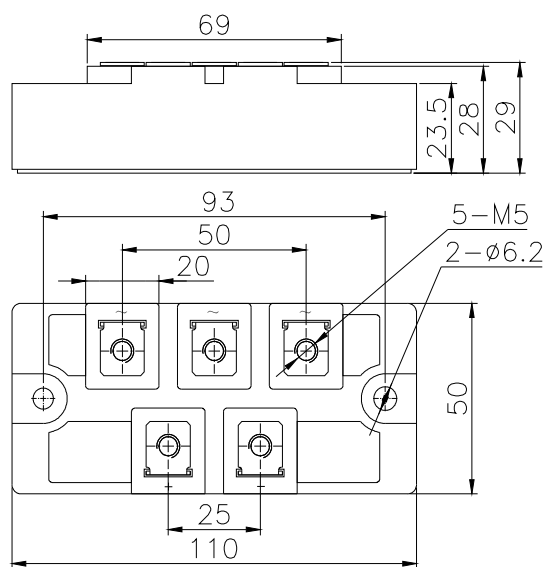
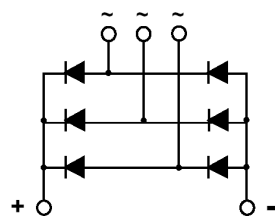


Fig.6

Outline:



411H5



221H5