



Features:

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RSM}	V_{RRM}	Type & Outline
900 V	800 V	MDS100-08-218H5
1300 V	1200 V	MDS100-12-218H5
1500 V	1400 V	MDS100-14-218H5
1700 V	1600 V	MDS100-16-218H5

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
I_o	DC output current	Three-phase full wave rectifying circuit, $T_C=100^{\circ}C$	150			100	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	100			0.80	KA
I^2t	I^2t for fusing coordination	$V_R=0$				3.2	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		150			0.7	V
r_F	Forward slop resistance					4.5	$m\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=100A$	25			1.30	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.20	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.07	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1mA(max)$		2500			V
F_m	Terminal connection torque(M5)				4		N·m
	Mounting torque(M6)				6		N·m
Tvj	junction temperature			-40		150	$^{\circ}C$
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight				210		g
Outline	218H5						

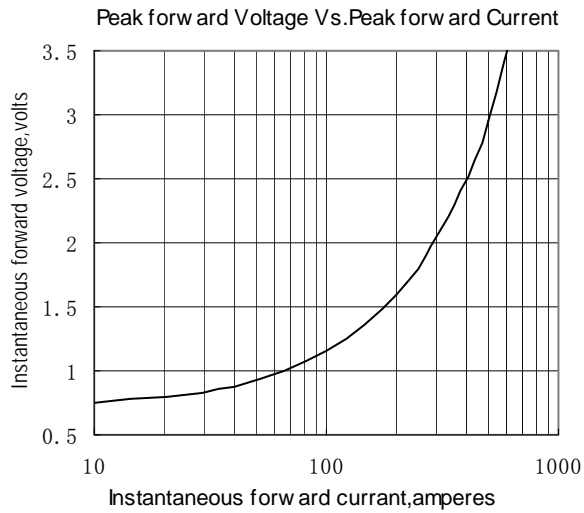


Fig.1

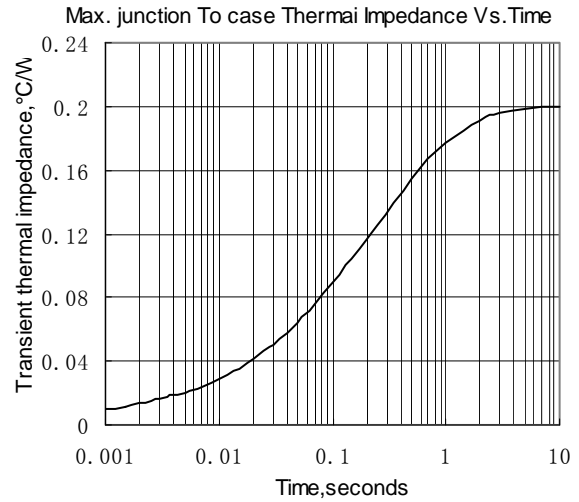


Fig.2

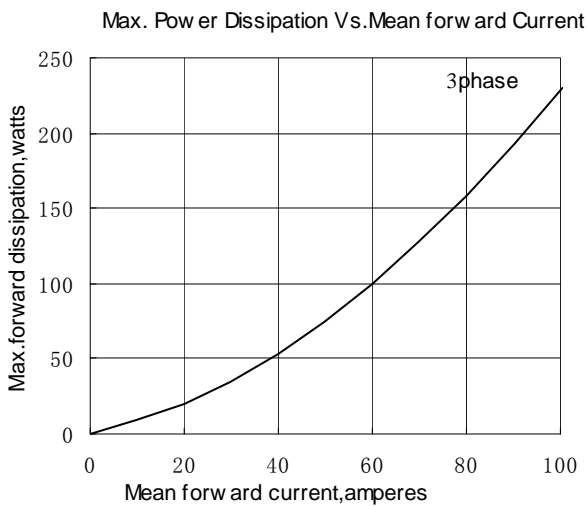


Fig.3

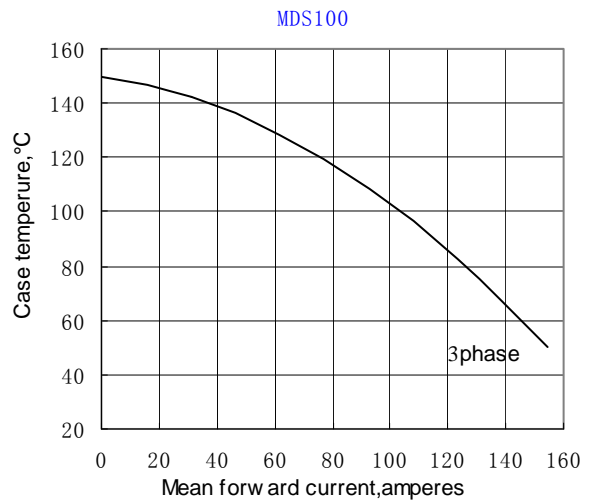


Fig.4

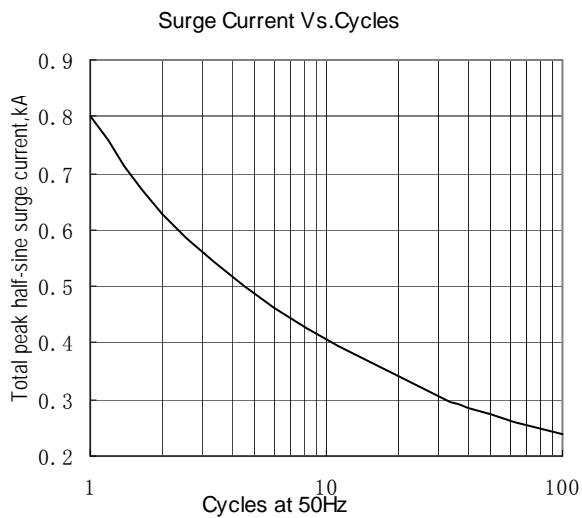


Fig.5

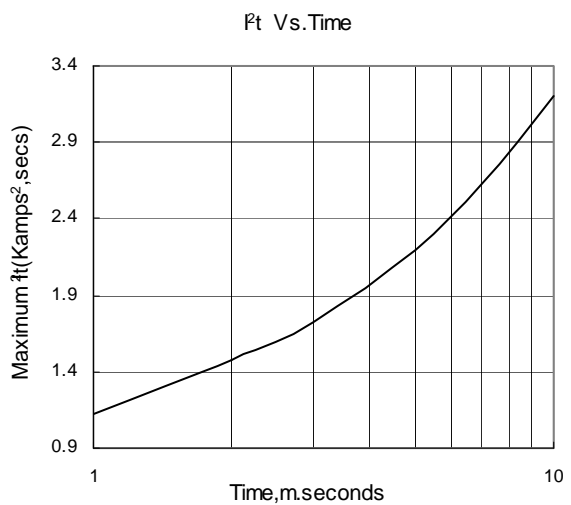
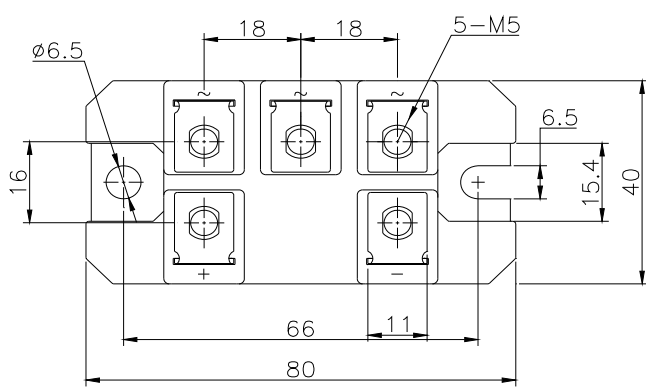
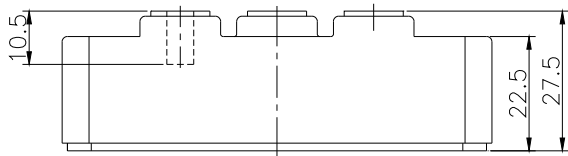


Fig.6

Outline:



218H5

MDS

