



### Features:

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

### Typical Applications

- Inverter
- Inductive heating
- Chopper

$V_{RSM}$	$V_{RRM}$	Type & Outline
900 V	800 V	MDS50-08-219H5
1300 V	1200 V	MDS50-12-219H5
1500 V	1400 V	MDS50-14-219H5
1700 V	1600 V	MDS50-16-219H5

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			50	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	100			0.40	KA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0$				0.8	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.7	V
$r_F$	Forward slop resistance					6.0	$m\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=50A$	25			1.20	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.30	$^{\circ}C/W$
$R_{th(c-h)}$	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
<b>Tvj</b>	junction temperature			-40		150	$^{\circ}C$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				210		g
Outline	219H5						

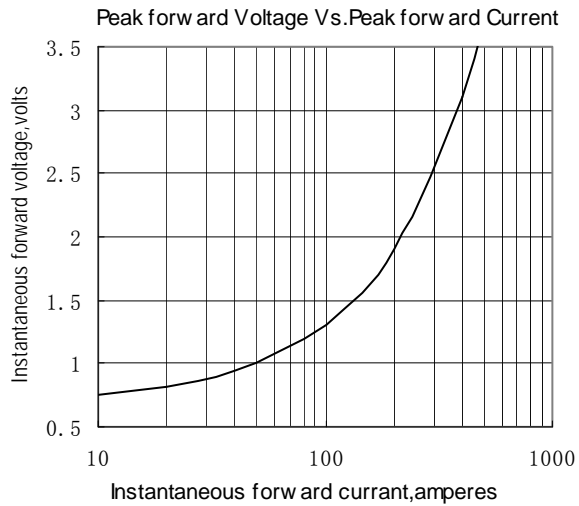


Fig.1

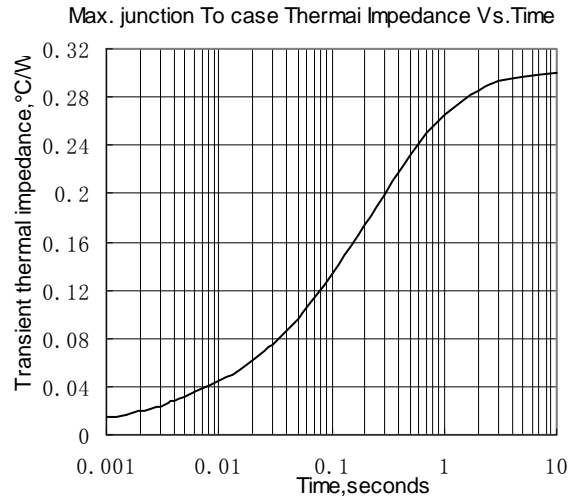


Fig.2

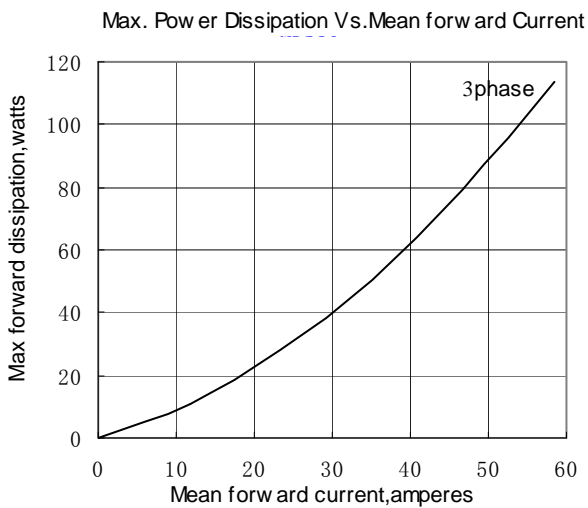


Fig.3

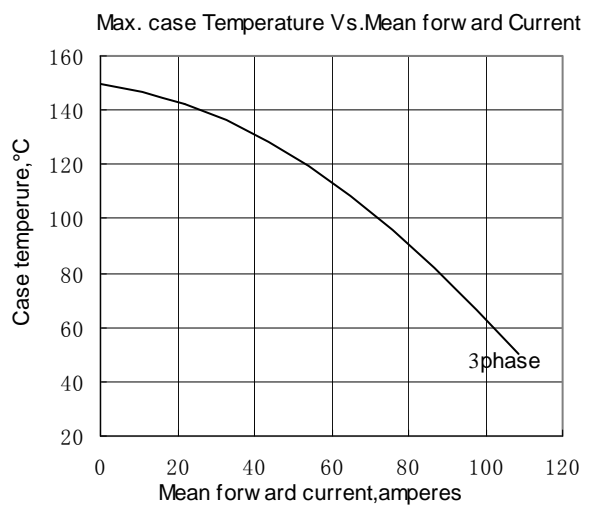


Fig.4

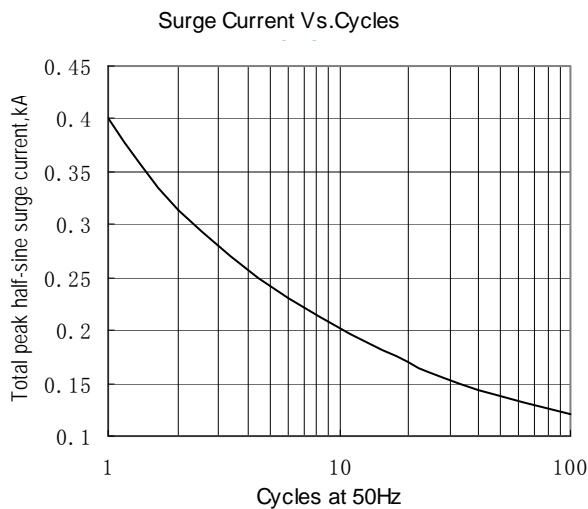


Fig.5

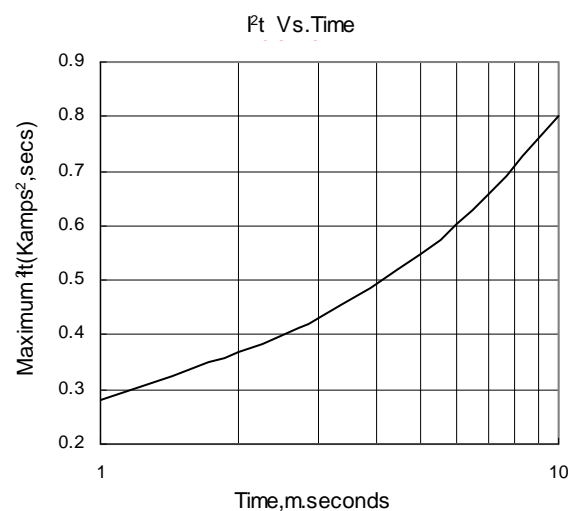
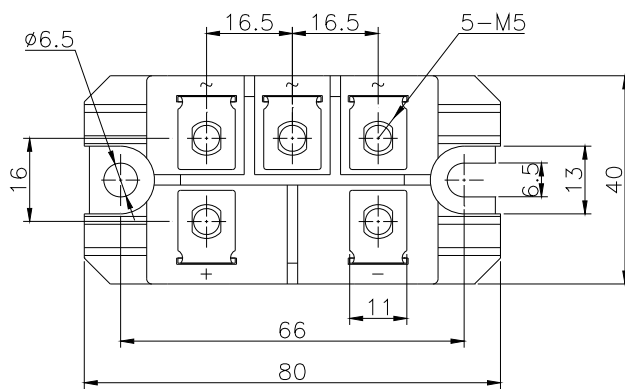
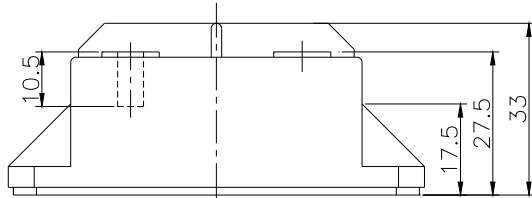


Fig.6

## Outline:



**219H5**

MDS

