**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	MDS150-08-411H5
1100V	1000V	MDS150-10-411H5
1300V	1200V	MDS150-12-411H5
1500V	1400V	MDS150-14-411H5
1700V	1600V	MDS150-16-411H5
1900V	1800V	MDS150-18-411H5

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			150	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			1.3	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0$				8.45	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					2.4	mW
$V_{FM}$	Peak forward voltage	$I_{FM}=150A$	25			1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.14	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, per total				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(M6)			4.5		6.0	N·m
	Mounting torque(M5)			2.5		4.0	N·m
$T_{vj}$	Junction temperature			-40		150	$^{\circ}C$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				330		g
Outline	411H5						

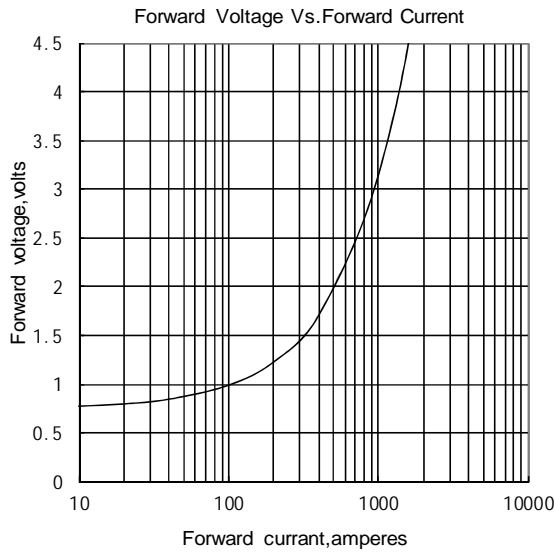


Fig.1

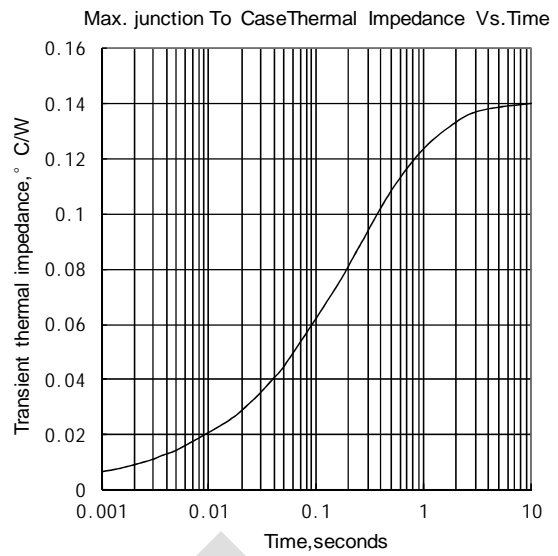


Fig.2

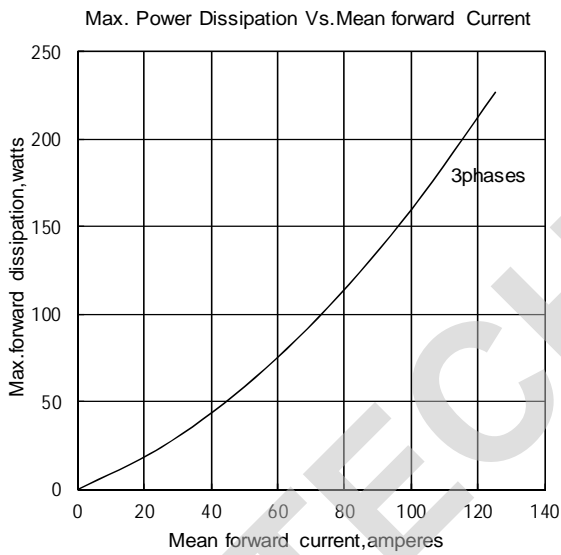


Fig.3

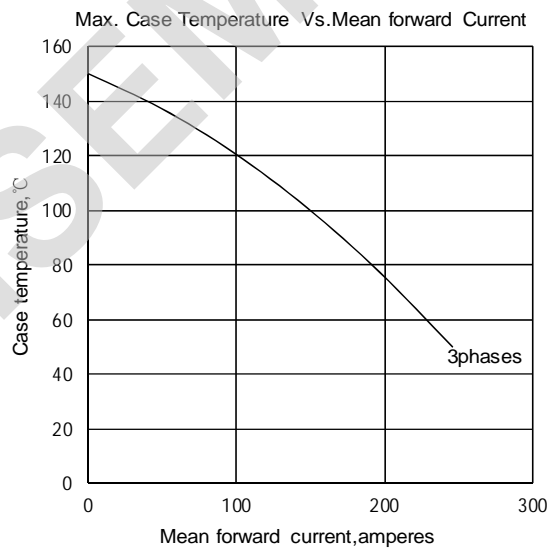


Fig.4

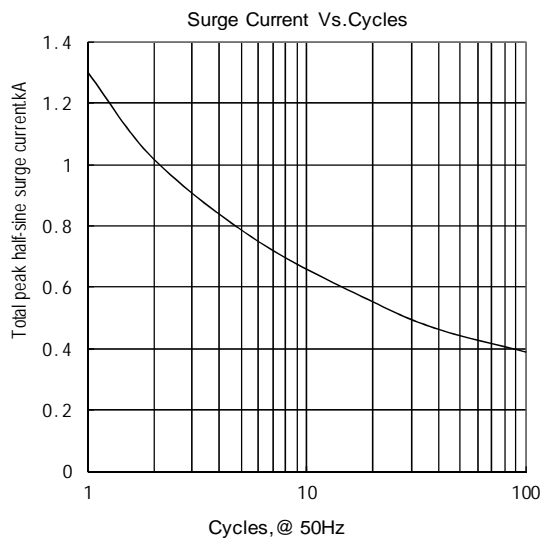


Fig.5

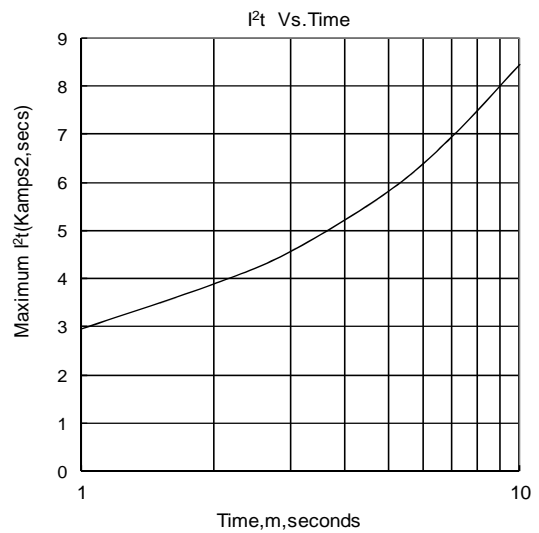
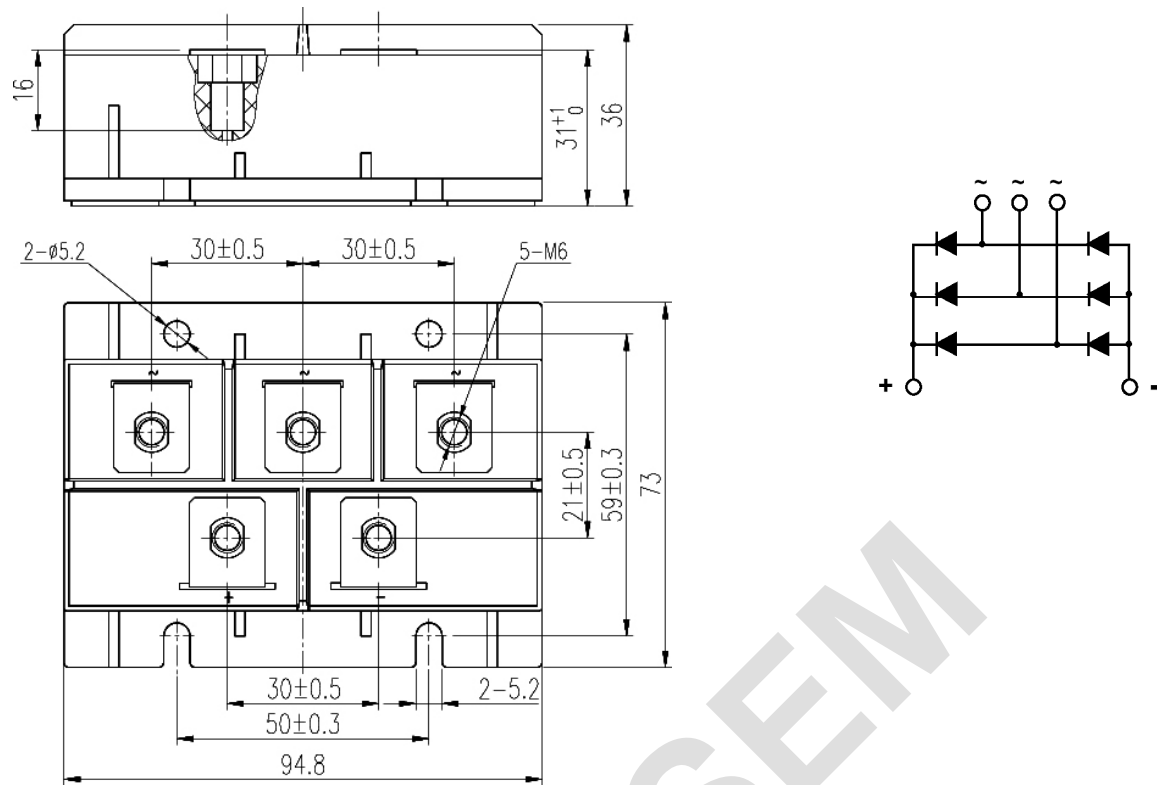


Fig.6

Outline:



Unmarked dimensional tolerance:  $\pm 0.5\text{mm}$

TECHSEM reserves the right to change specifications without notice.