

**Features:**

- n Isolated mounting base 3000V~
- n Solder joint technology with Increased power cycling capability
- n Space and weight saving

**Typical Applications**

- n Inverter
- n Inductive heating
- n Chopper

$V_{RRM}$	Type & Outline
<b>2000V</b>	<b>MDS100-20-232H5</b>
<b>2200V</b>	<b>MDS100-22-232H5</b>

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			100	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave, $V_R=0$	45			0.75	kA
			125			0.70	
			150			0.58	
$I^2t$	$I^2t$ for fusing coordination		45			2.81	$10^3\text{A}^2\text{s}$
			125			2.45	
			150			1.68	
$V_{FO}$	Threshold voltage		150			0.72	V
$r_F$	Forward slope resistance					7.00	mW
$V_{FM}$	Peak forward voltage	$I_{FM}=100\text{A}$	25			1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.20	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heat sink	Single side cooled, per total				0.07	$^{\circ}\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1\text{mA}(\text{max})$		3000			V
$F_m$	Terminal connection torque(M5)			2.5		4.0	N·m
	Mounting torque(M5)			2.5		4.0	N·m
$T_{vj}$	Junction temperature			-40		150	$^{\circ}\text{C}$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}\text{C}$
$W_t$	Weight				135		g
Outline	232H5						

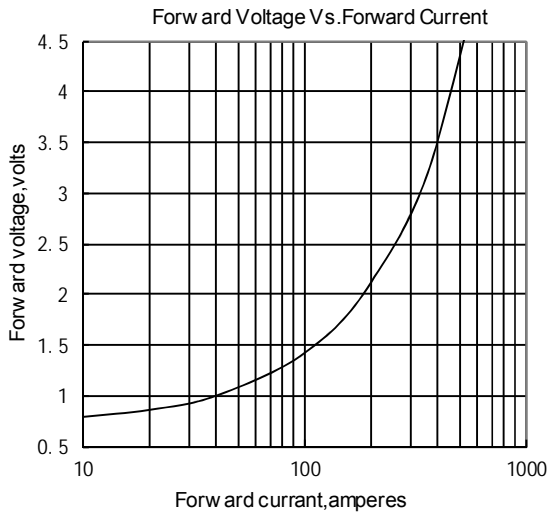


Fig.1

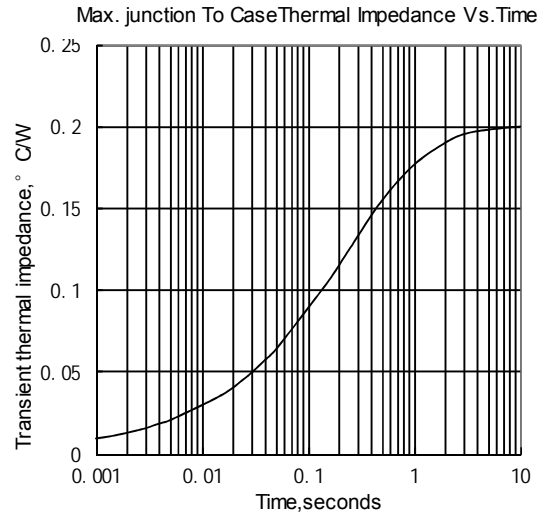


Fig.2

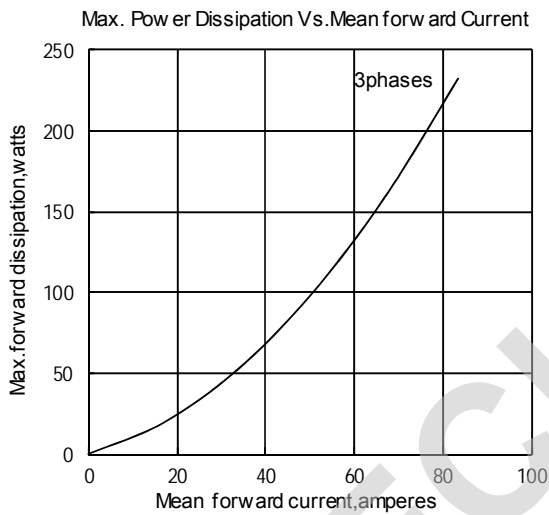


Fig.3

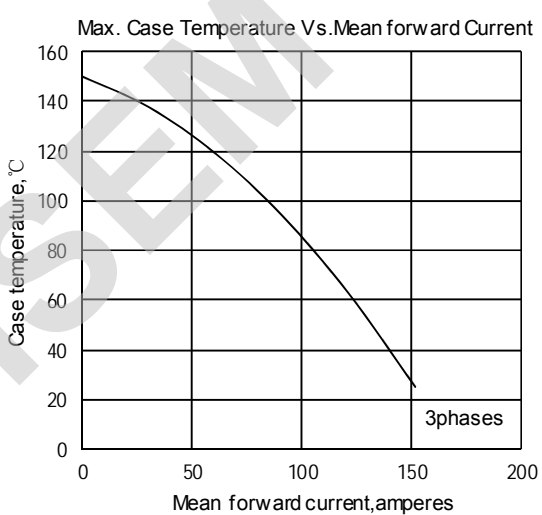


Fig.4

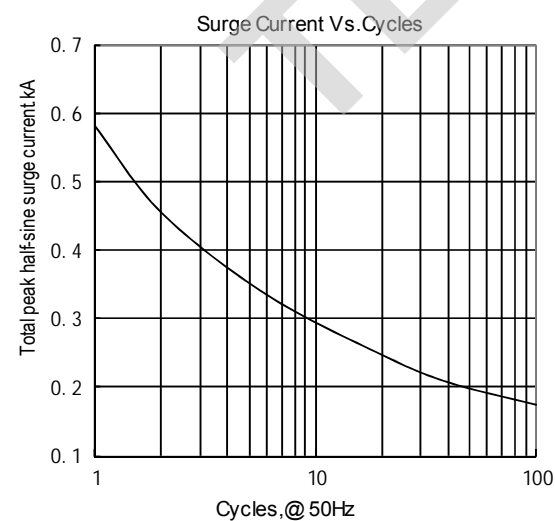


Fig.5

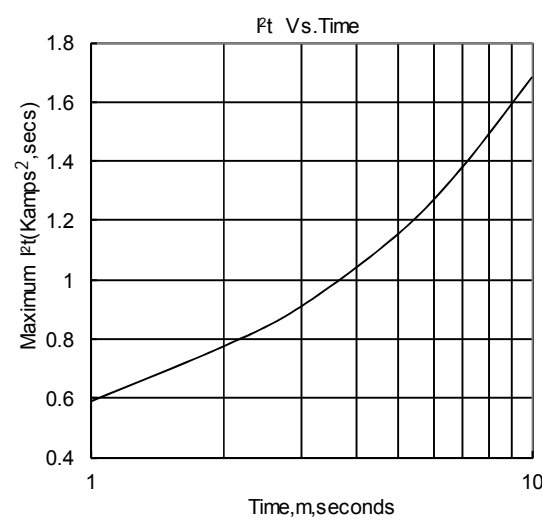
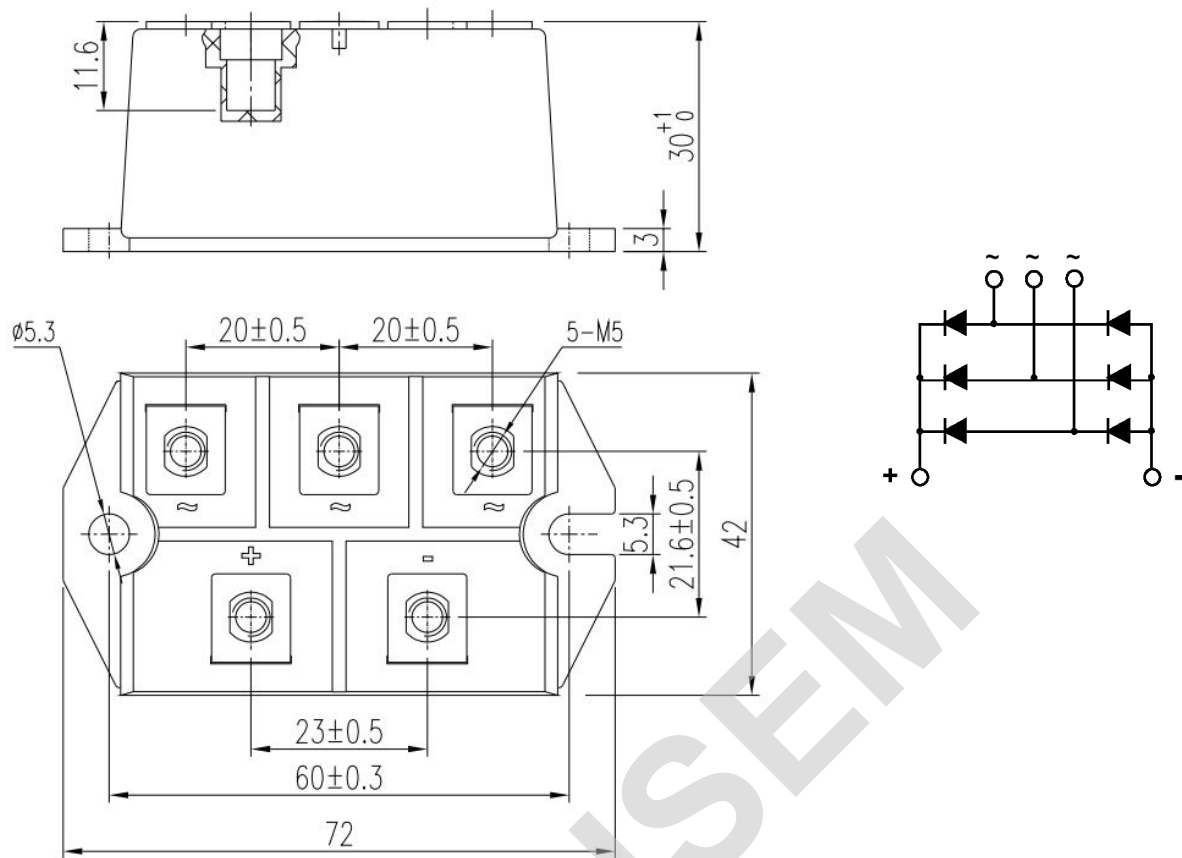


Fig.6

Outline:



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

TECHSEM reserves the right to change specifications without notice.