

**Features:**

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RRM}	Type & Outline
2000V	MDS100-20-232H5
2200V	MDS100-22-232H5

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (°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
I^2t	I^2t for fusing coordination		125			0.70	
			150			0.58	
V_{FO}	Threshold voltage	150	45			2.81	$10^3\text{A}^2\text{s}$
r_F	Forward slope resistance		125			2.45	
V_{FM}	Peak forward voltage	$I_{FM}=100\text{A}$	150	25		1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.20	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink	Single side cooled, per total				0.07	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA(max)}$		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	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				135		g
Outline				232H5			

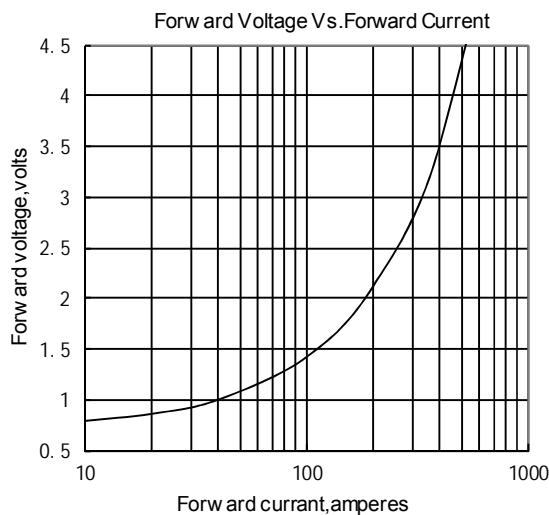


Fig.1

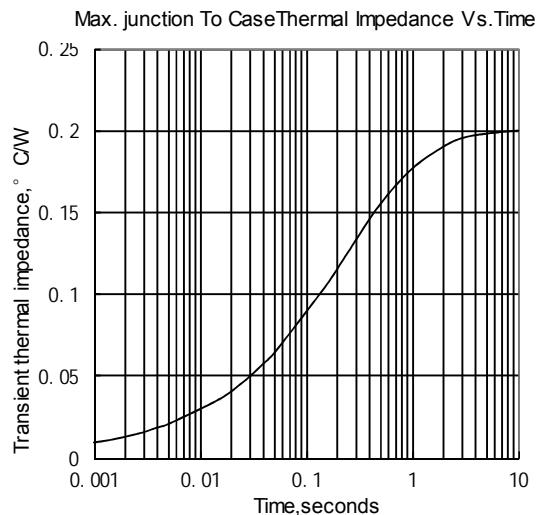


Fig.2

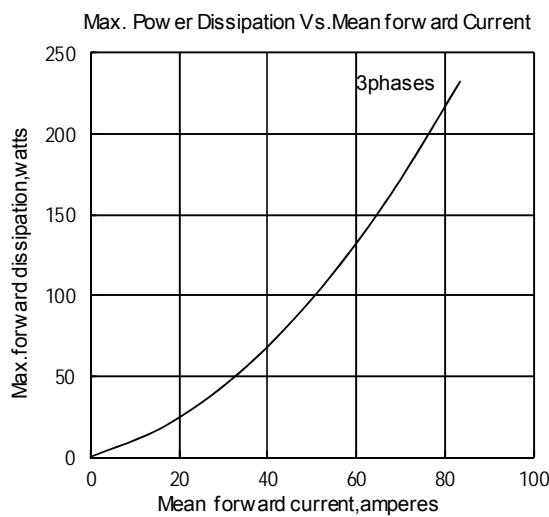


Fig.3

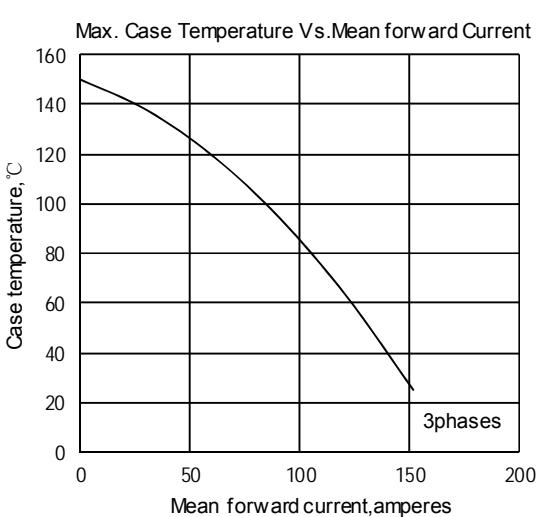


Fig.4

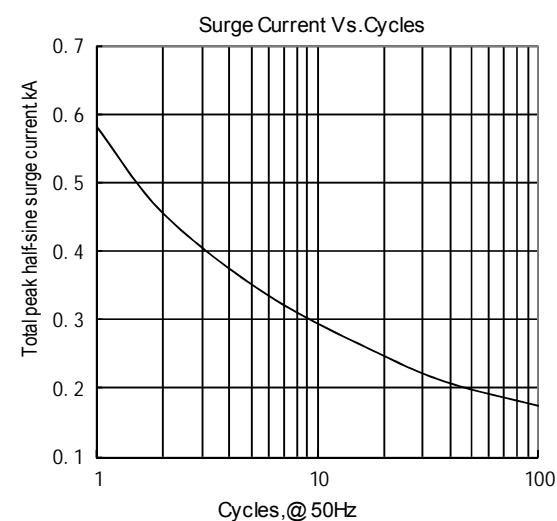


Fig.5

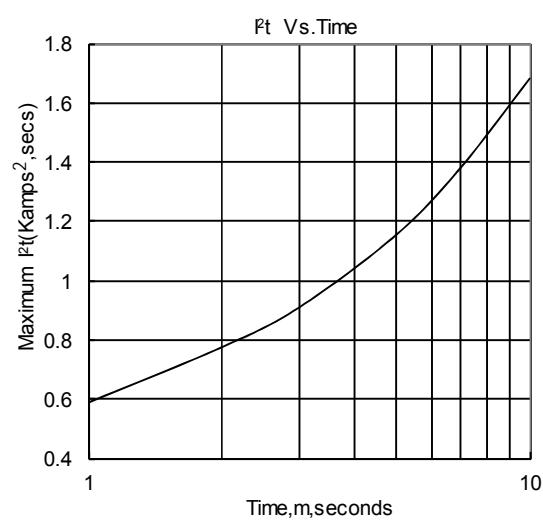
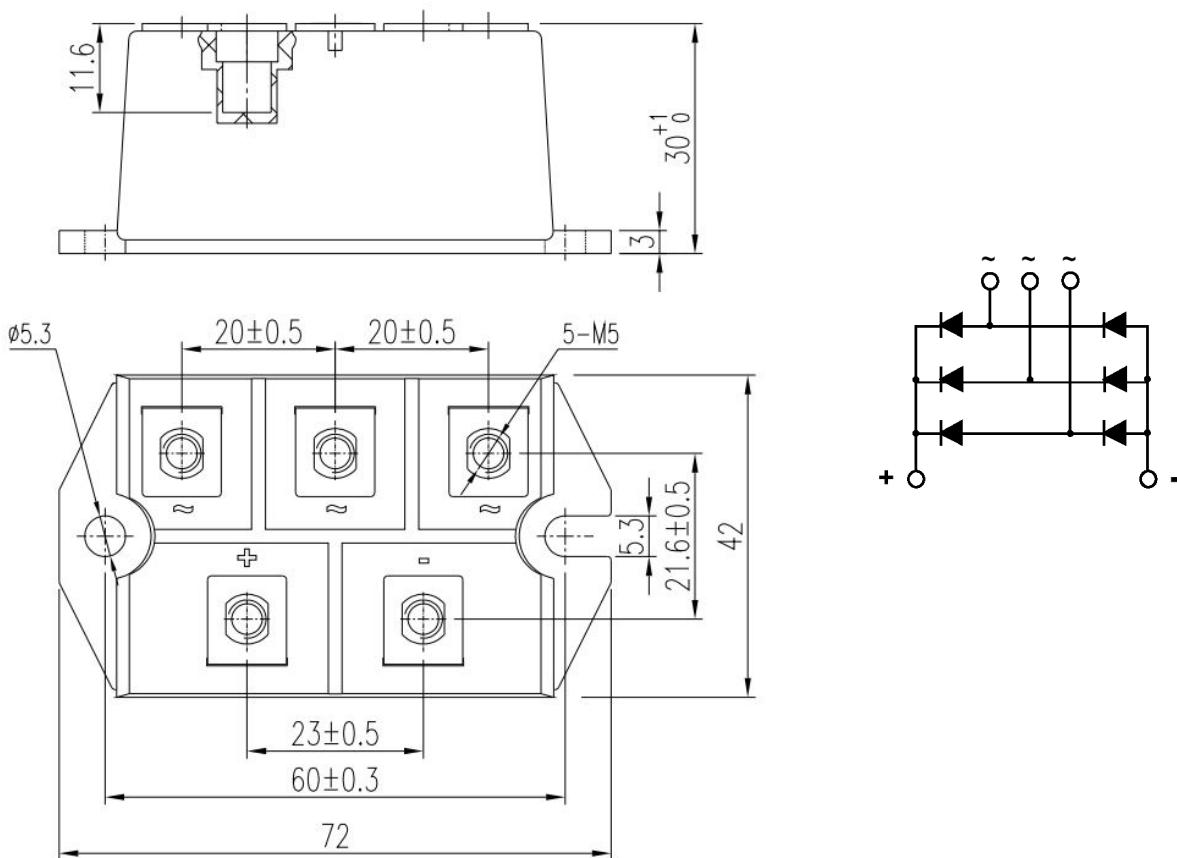


Fig.6

Outline:

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

TECHSEM reserves the right to change specifications without notice.