



Features:

- Isolated mounting base 2500V~
- Solder joint technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- Inverter
- Inductive heating
- Chopper

V _{RRM}	Type & Outline
800V	MDS250-08-234H5
1000V	MDS250-10-234H5
1200V	MDS250-12-234H5
1400V	MDS250-14-234H5
1600V	MDS250-16-234H5
1800V	MDS250-18-234H5

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°C	150			250	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			12	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0	150			2.0	kA
			45			2.4	kA
I ² t	I ² t for fusing coordination		150			20	10 ³ A ² s
			45			28.8	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.72	V
r _F	Forward slope resistance					1.8	mΩ
V _{FM}	Peak forward voltage	I _{FM} =250A	25			1.50	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled, per total				0.07	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled, per total				0.07	°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(M6)			4.5		6.0	N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				240		g
Outline	234H5						

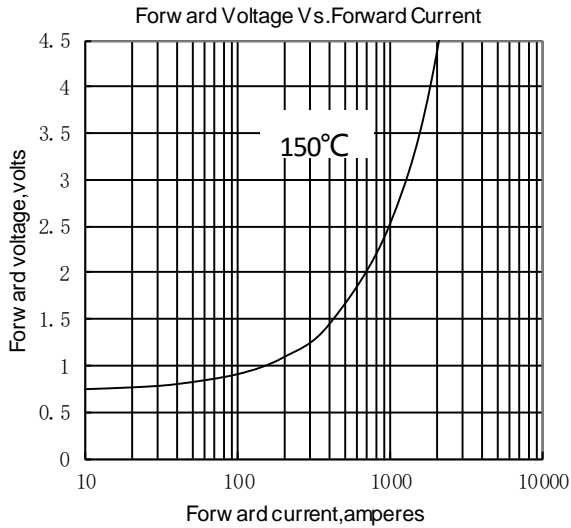


Fig.1

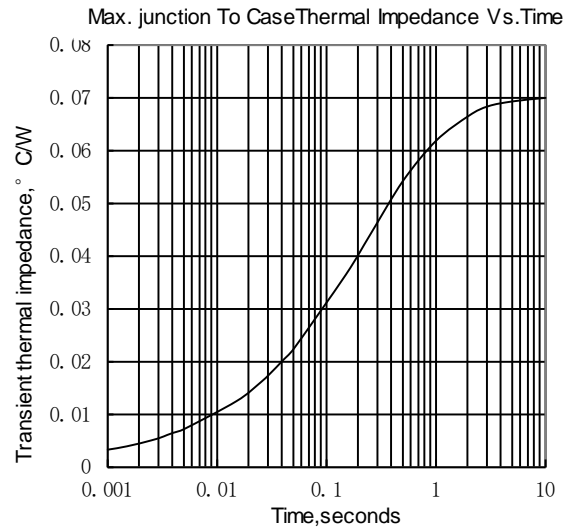


Fig.2

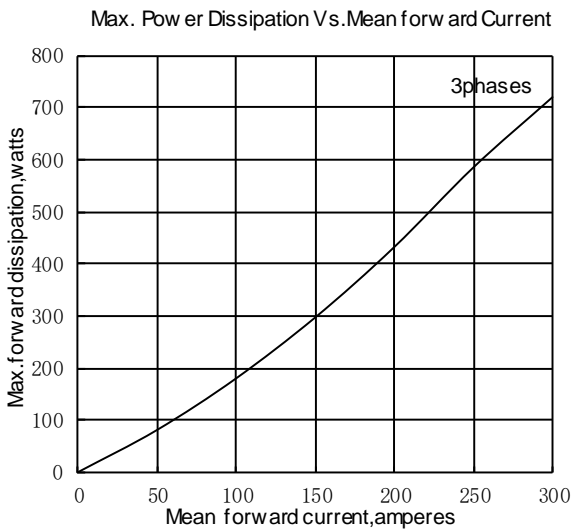


Fig.3

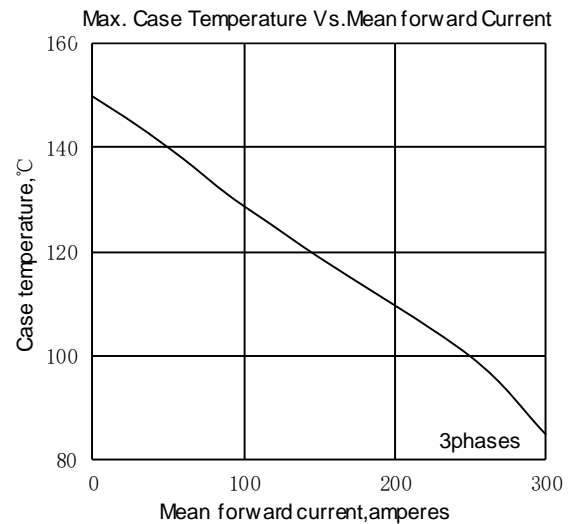


Fig.4

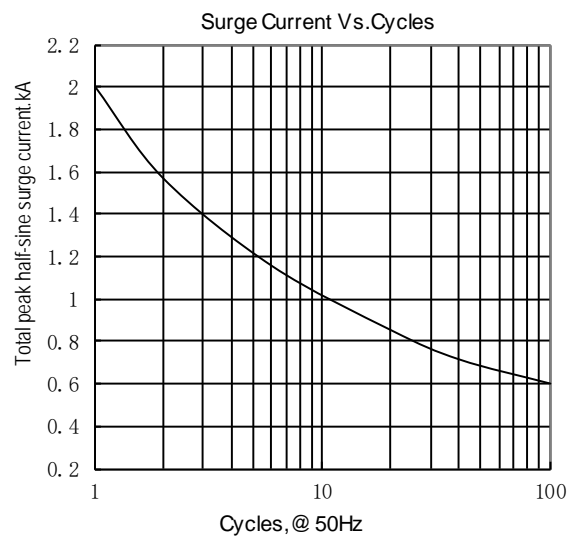


Fig.5

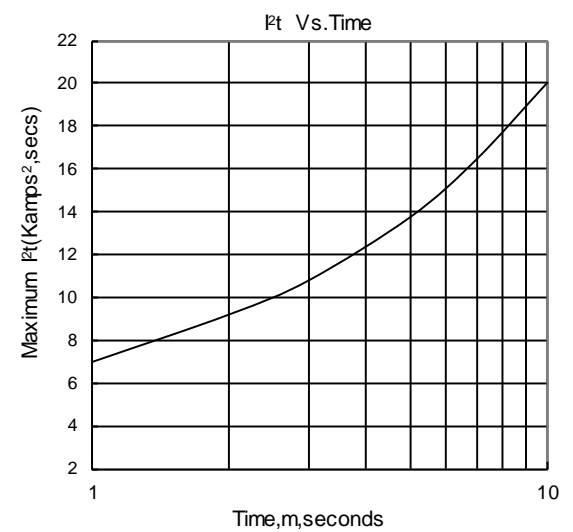
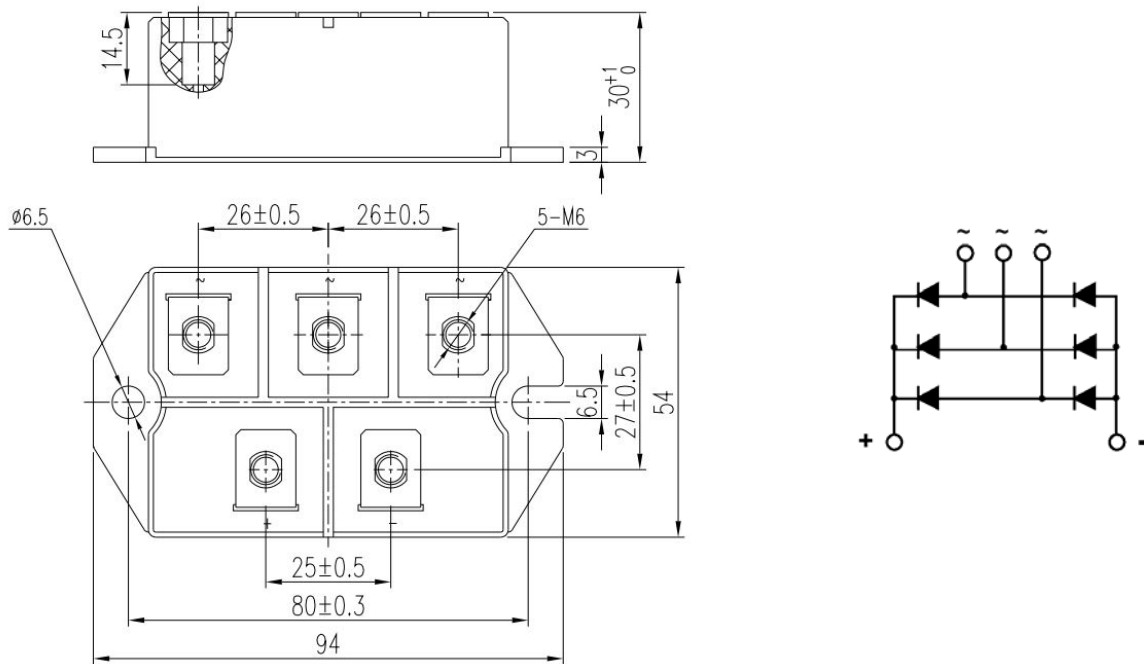


Fig.6

Outline:



Unmarked dimensional tolerance: ±0.5mm

TECHSEM reserves the right to change specifications without notice.