

**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	1000V	1200V
1400V	MDS175-14-234H5		
1600V	MDS175-16-234H5		
1800V	MDS175-18-234H5		

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _o	DC output current	Three-phase full wave rectifying circuit, T _{case} =100°C	150			175	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			12	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			1.4	kA
I ² t	I ² t for fusing coordination	V _R =0				9.8	10 ³ A ² s
V _{FO}	Threshold voltage	I _{FM} =175A	150			0.75	V
r _F	Forward slope resistance					2.2	mW
V _{FM}	Peak forward voltage	I _{FM} =175A	25			1.45	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled, per total				0.12	°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					

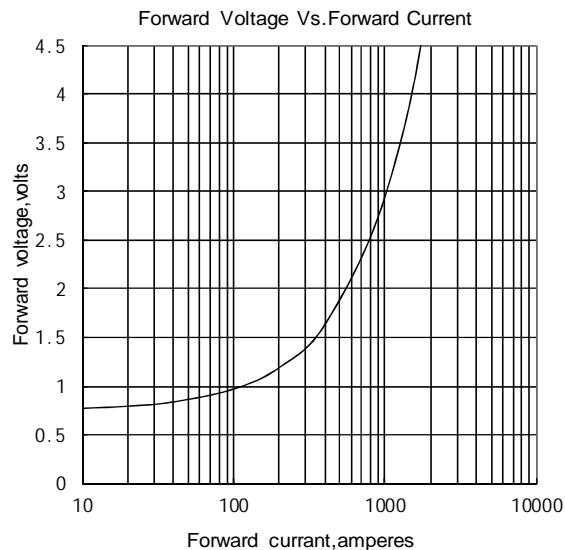


Fig.1

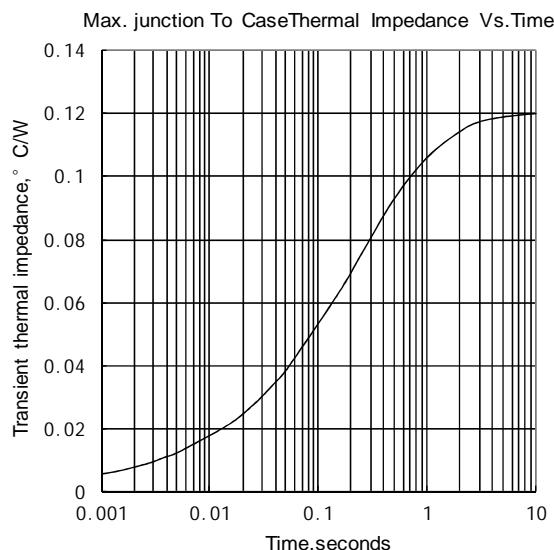


Fig.2

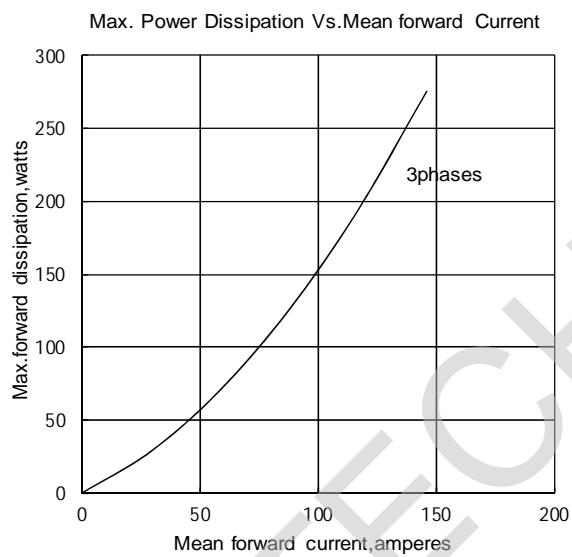


Fig.3

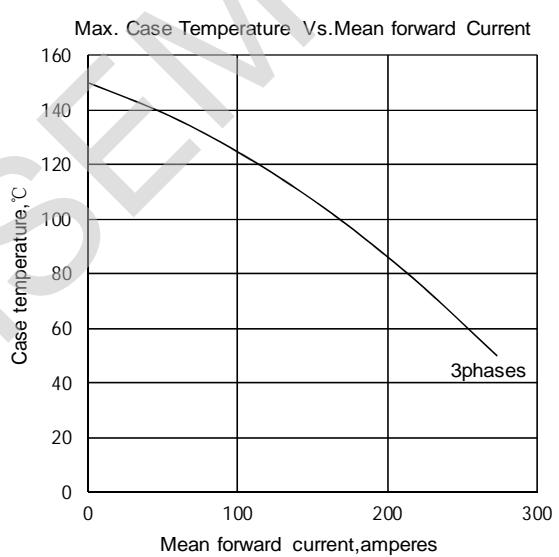


Fig.4

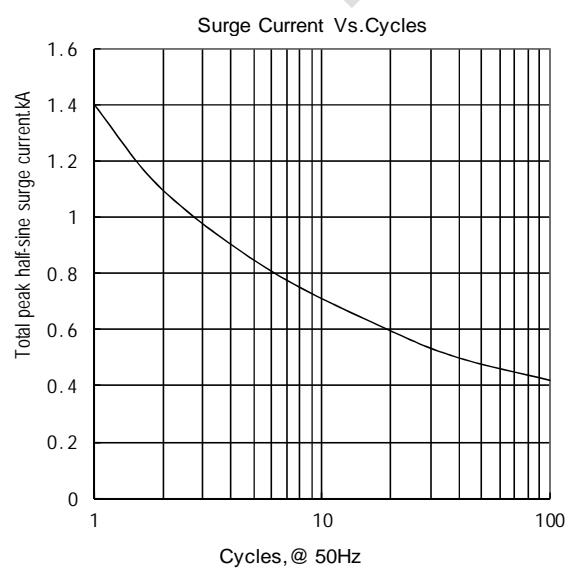


Fig.5

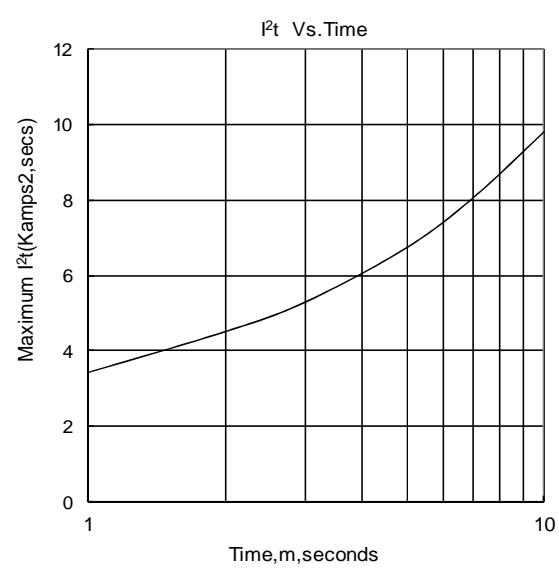
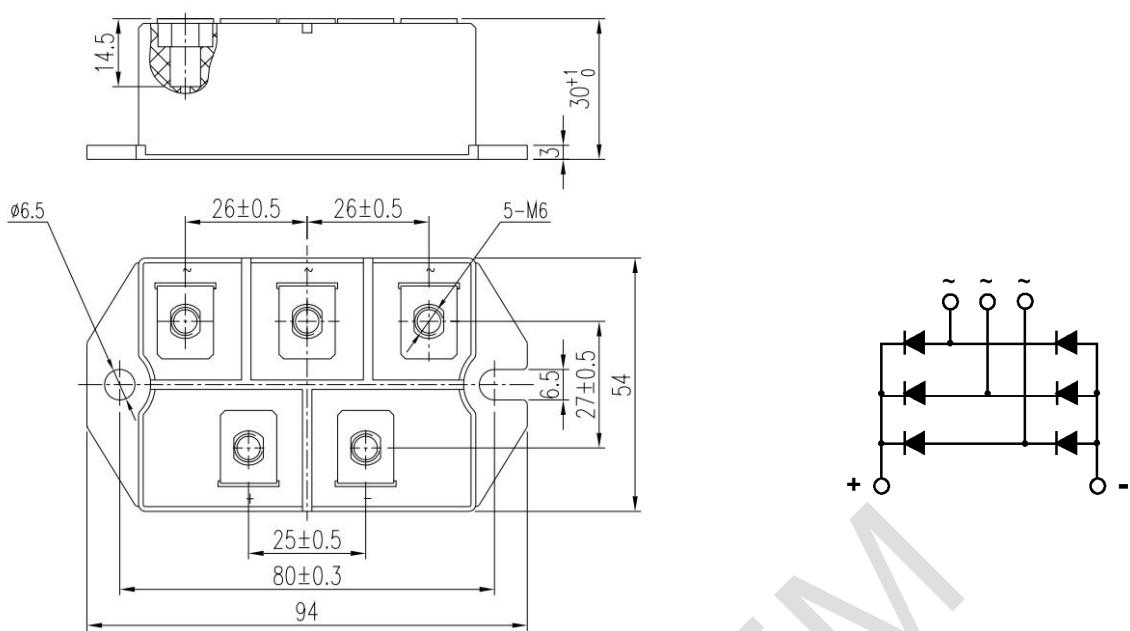


Fig.6

Outline:

Unmarked dimensional tolerance: ±0.5mm