

**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		
	Min	Type	Max
600V	MDS150-06-234H5		
800V	MDS150-08-234H5		
1000V	MDS150-10-234H5		
1200V	MDS150-12-234H5		
1400V	MDS150-14-234H5		
1600V	MDS150-16-234H5		
1800V	MDS150-18-234H5		

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			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 ² t	I ² t for fusing coordination	V _R =0				8.45	10 ³ A ² s
I _{FSM}	Surge forward current	10ms half sine wave	45			1.7	kA
I ² t	I ² t for fusing coordination	V _R =0				14.45	10 ³ A ² s
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	°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			

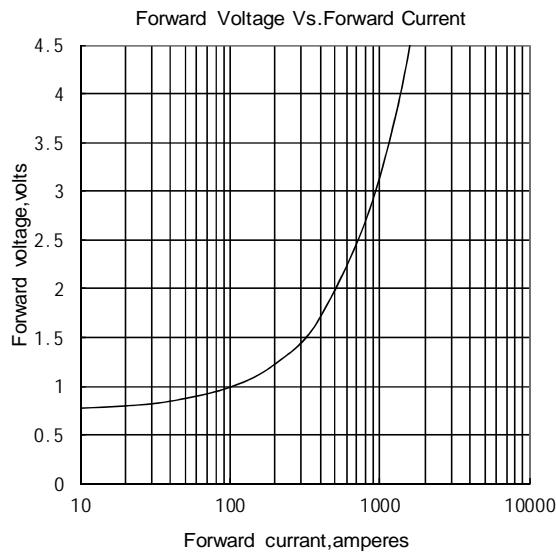


Fig.1

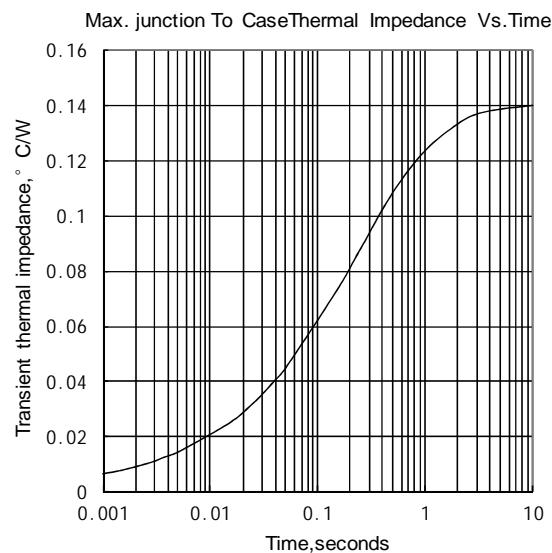


Fig.2

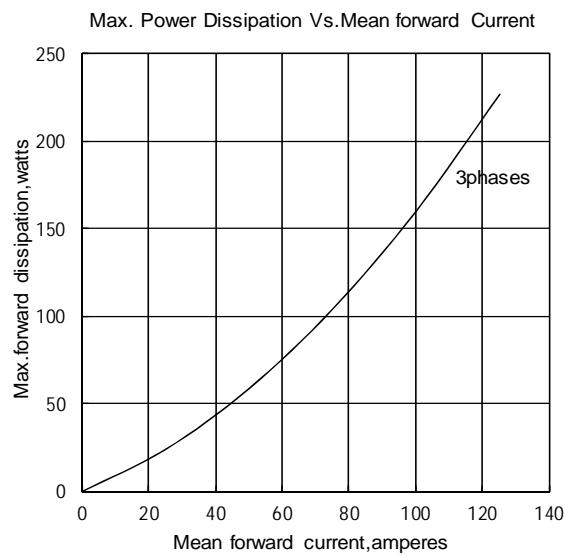


Fig.3

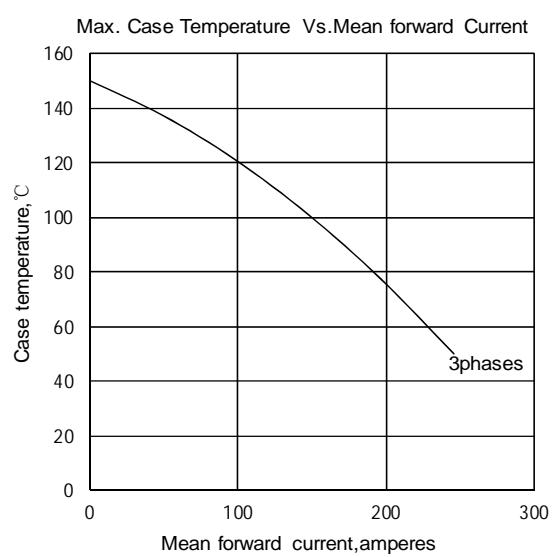


Fig.4

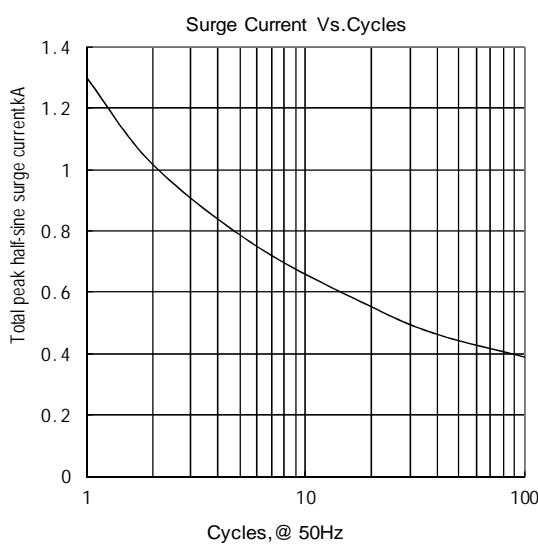


Fig.5

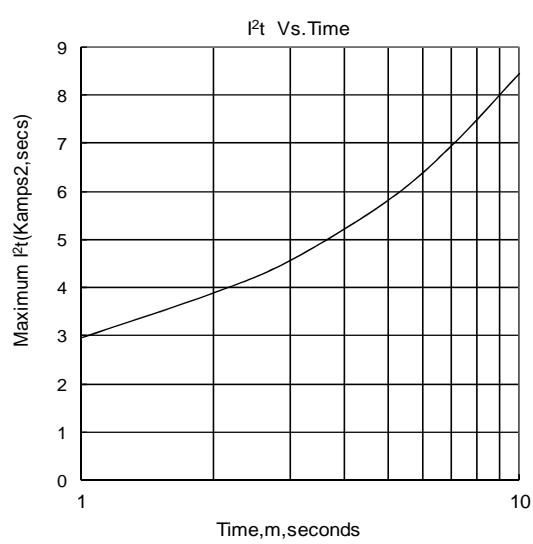
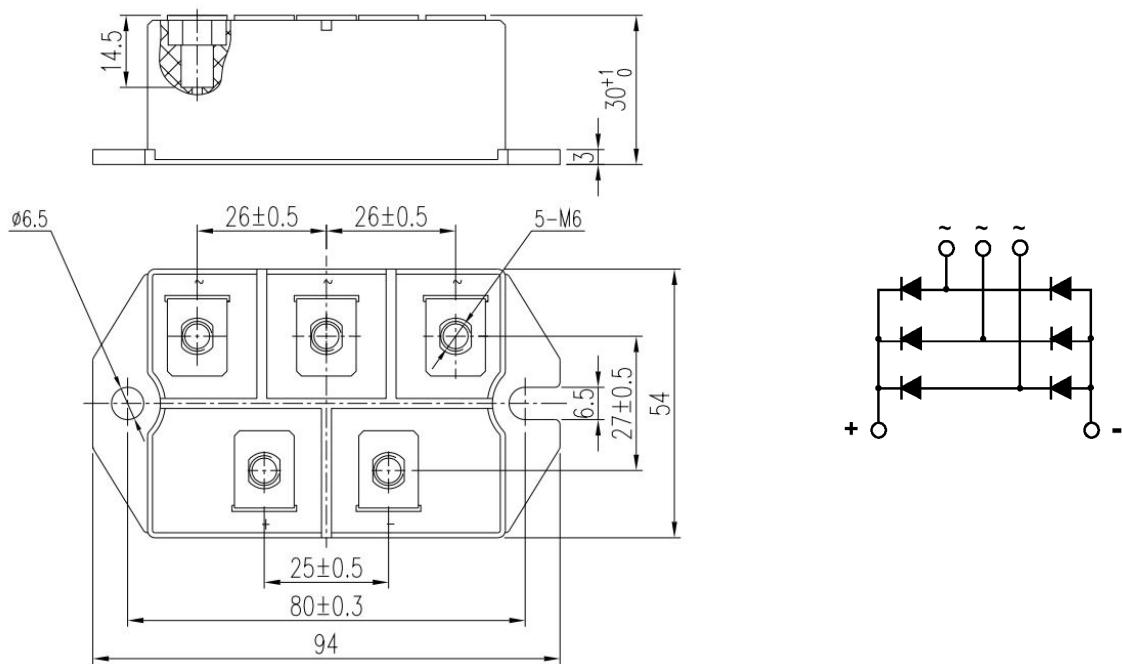


Fig.6

Outline:

Unmarked dimensional tolerance: ±0.5mm