



Features:

- n Isolated mounting base 2500V~
- 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
600V	MDS100-06-232H5
800V	MDS100-08-232H5
1000V	MDS100-10-232H5
1200V	MDS100-12-232H5
1400V	MDS100-14-232H5
1600V	MDS100-16-232H5
1800V	MDS100-18-232H5

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°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	150			0.6	kA
I ² t	I ² t for fusing coordination					1.8	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.7	V
r _F	Forward slope resistance					4.5	m
V _{FM}	Peak forward voltage	I _{FM} =100A	25			1.30	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 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(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						

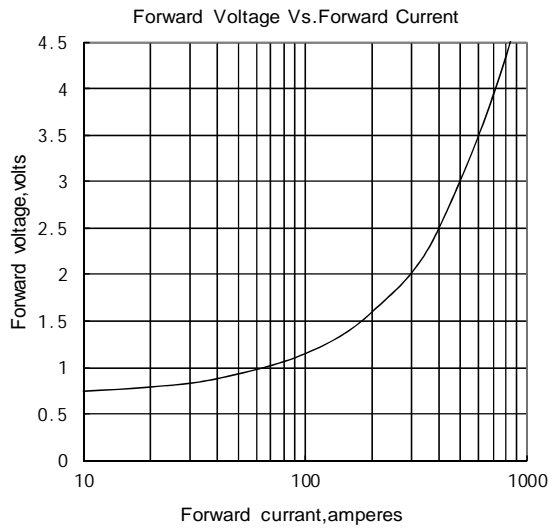


Fig.1

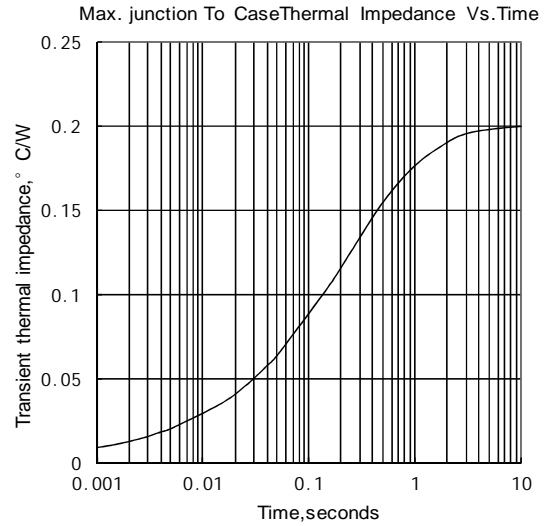


Fig.2

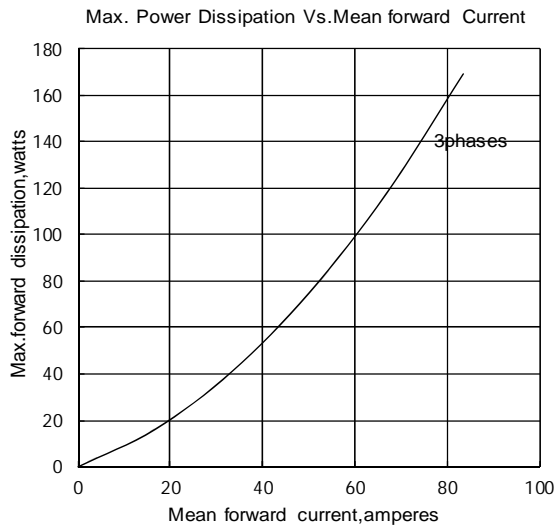


Fig.3

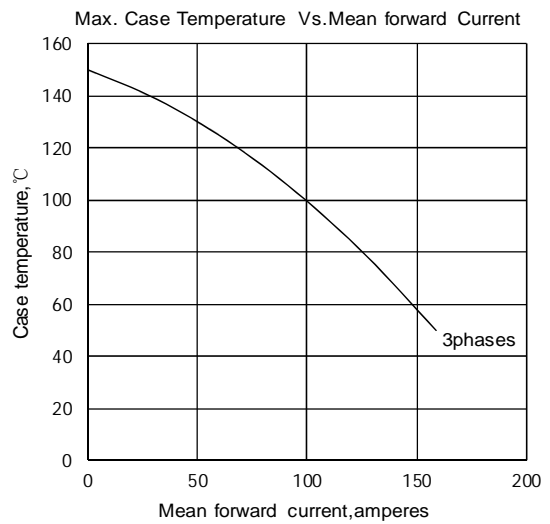


Fig.4

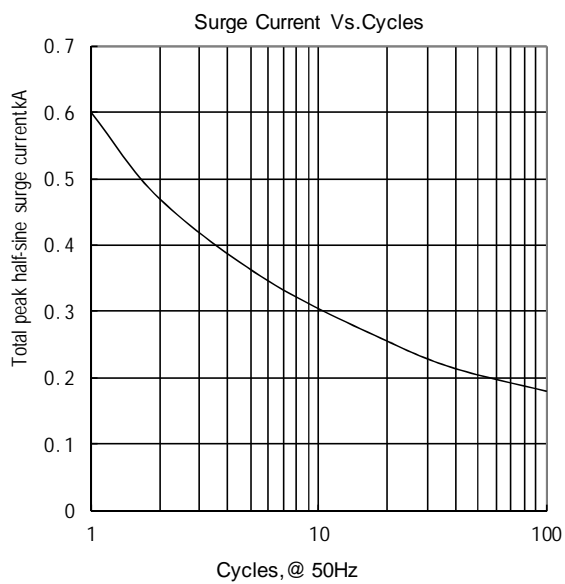


Fig.5

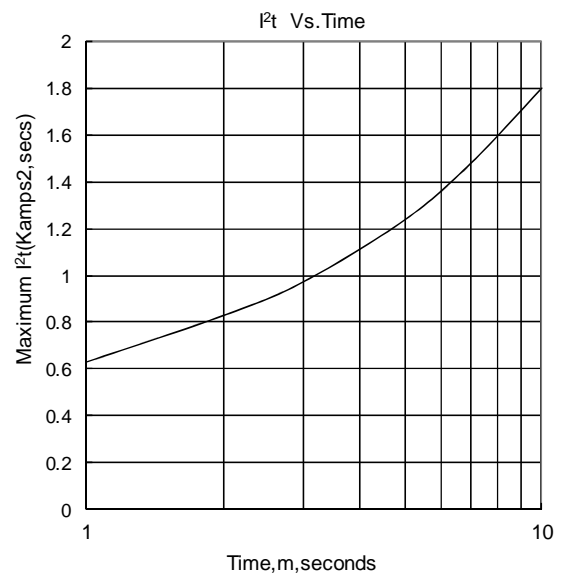
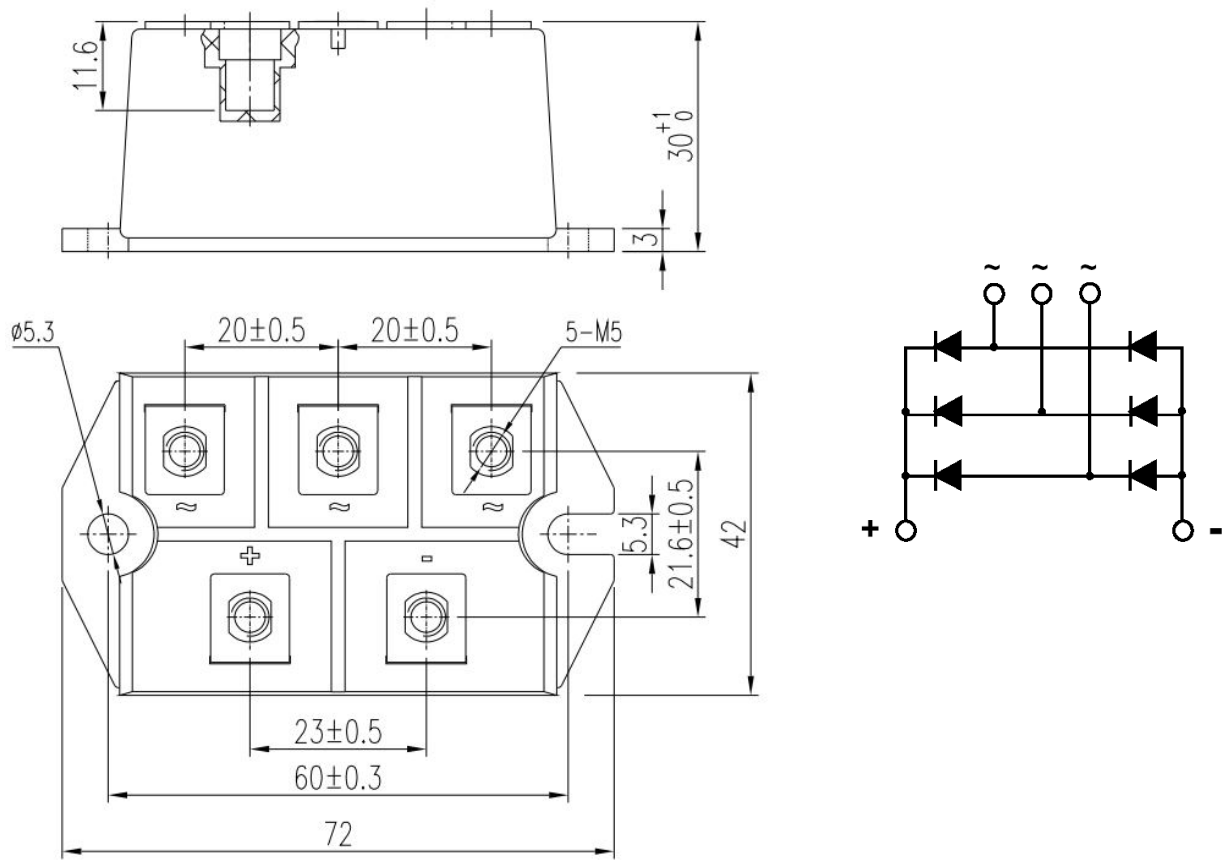


Fig.6

Outline:



Unmarked dimensional tolerance: ±0.5mm