

MDS150

Three Phases Rectification Bridge Modules

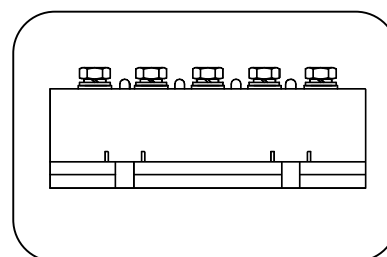
Features:

- n Isolated mounting base 2500V~
- n Pressure contact technology with Increased power cycling capability
- n Space and weight savings

Typical Applications

- n Inverter
- n Inductive heating
- n Chopper

I_o **150 A**
 V_{RRM} **600~1600 V**
 I_{FSM} **$1.5 A \times 10^3$**
 I^2t **$1.14 A^2 S \cdot 10^3$**



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
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +200V	150	600		1600	V
I _{RRM}	Repetitive peak current	at V _{RRM}	150			10	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			1.5	KA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				1.14	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.8	V
r _F	Forward slop resistance					3.8	mΩ
V _{FM}	Peak forward voltage	I _{FM} =150A	25			1.20	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled				0.14	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink	Single side cooled				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 (M64)				6		N·m
	Mounting torque (M5)				4		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				450		g
Outline	411F5/419F5/211F5						

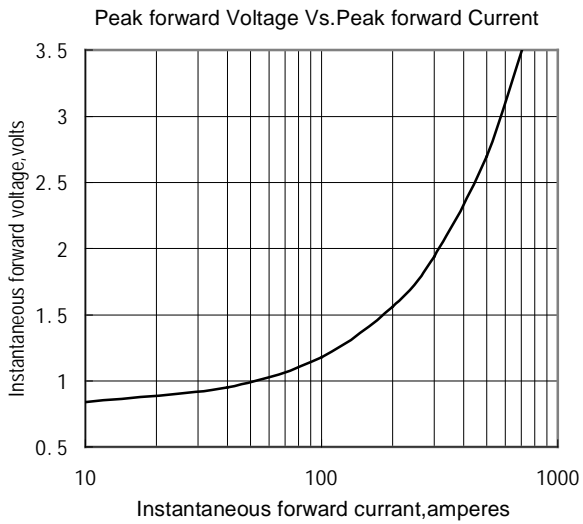


Fig.1

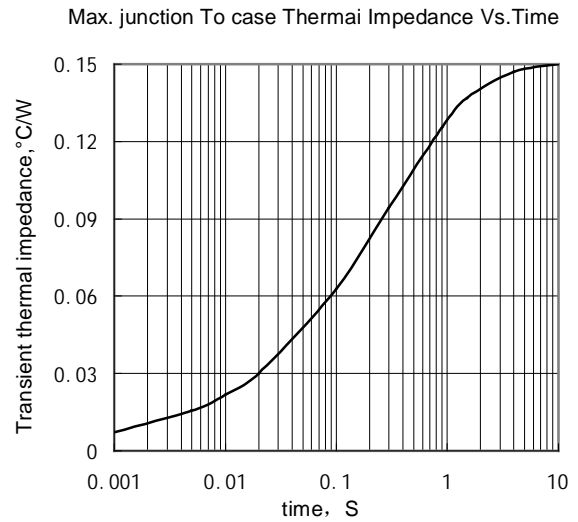


Fig.2

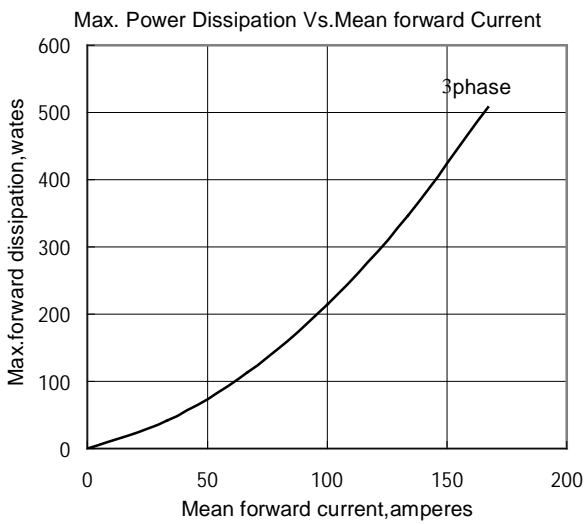


Fig.3

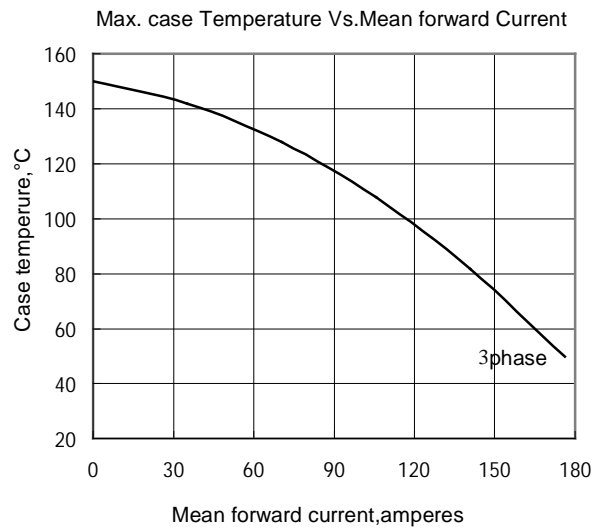


Fig.4

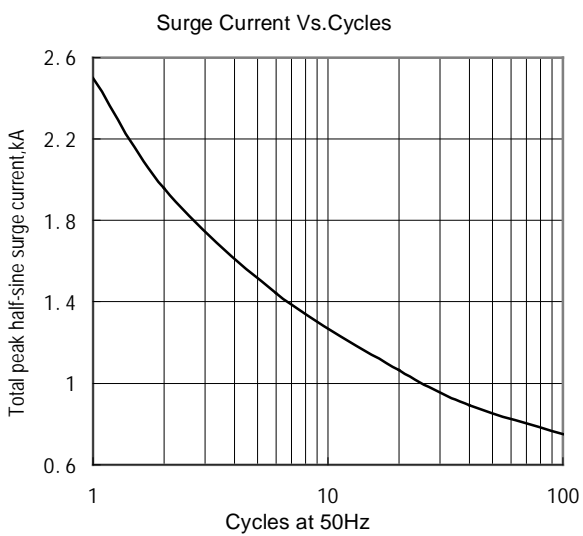


Fig.5

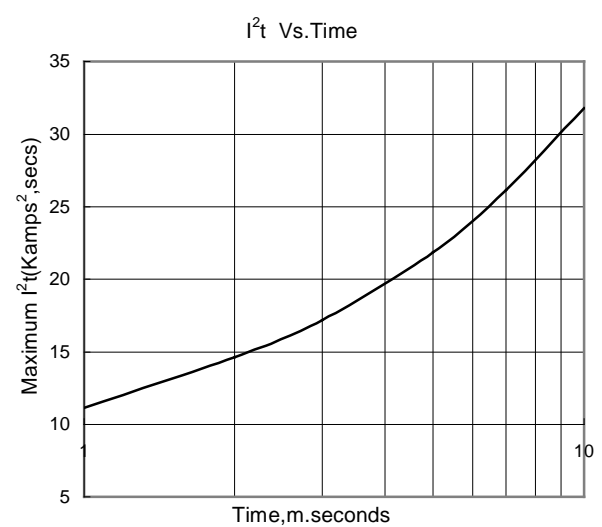


Fig.6

Outline:

