TECHSEM

MDS30

Three Phases Rectification Bridge Modules

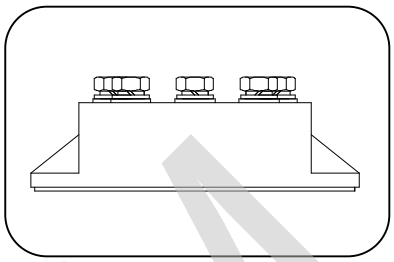
Features：

- **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	**30 A**
V_{RRM}	**600~1600 V**
I_{FSM}	**0.5 A×10^3**
I^2t	**1.2 A^2 S*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			30	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			2	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			0. 5	KA
I^2t	I^2T for fusing coordination					1.2	A^2s*10^3
V_{FO}	Threshold voltage		150			0.8	V
r_F	Forward slop resistance					9.0	mΩ
V_{FM}	Peak forward voltage	I_{FM}=30A	25			1.1	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.44	°C /W
Rth(c-h)	Thermal resistance case to heat sink	Single side cooled				0.2	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(max)		2500			V
F_m	Terminal connection torque (M5)				4		N·m
	Mounting torque (M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				450		g
Outline	222F5						

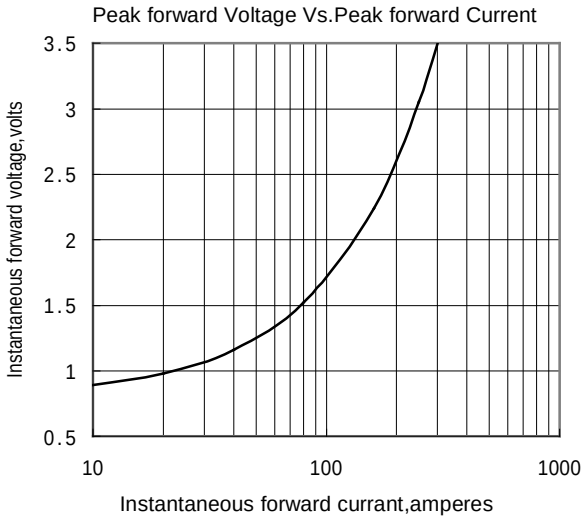


Fig.1

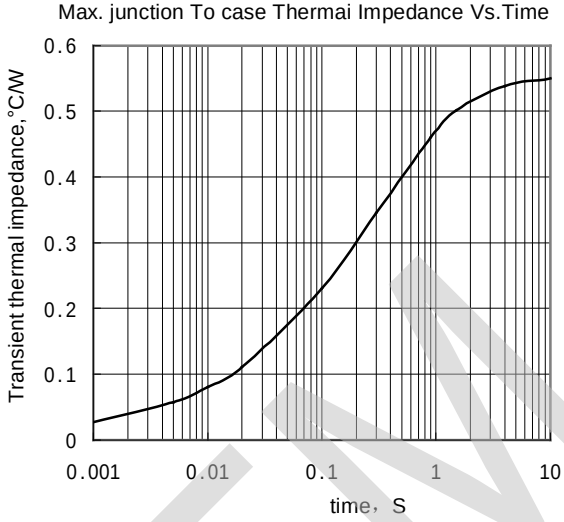


Fig.2

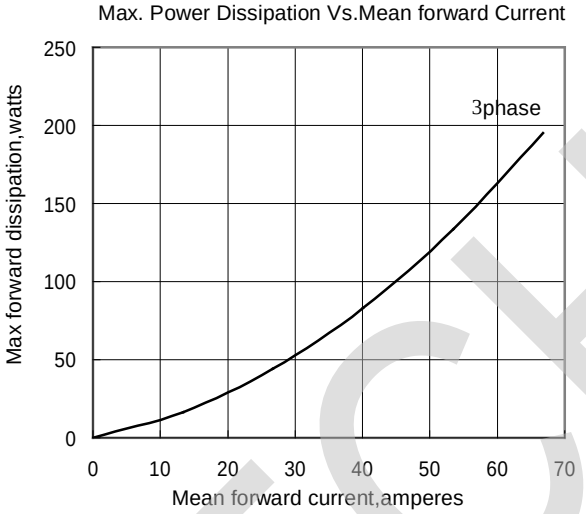


Fig.3

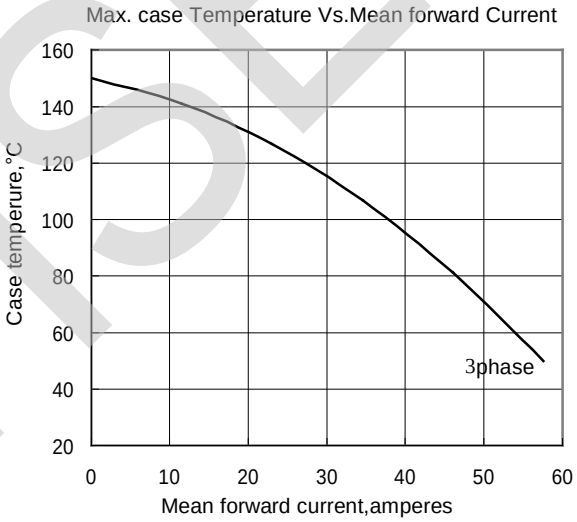


Fig.4

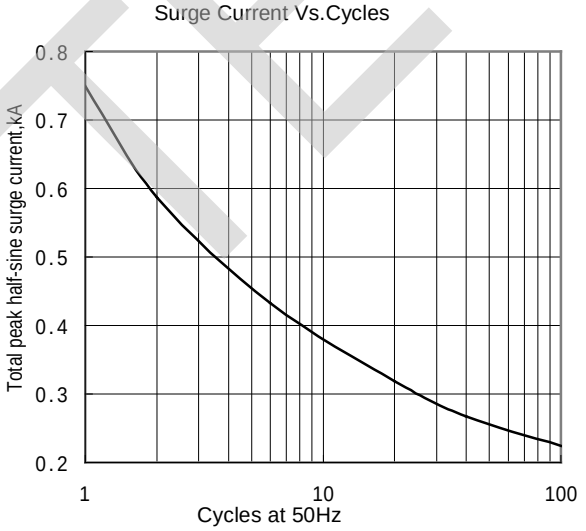


Fig.5

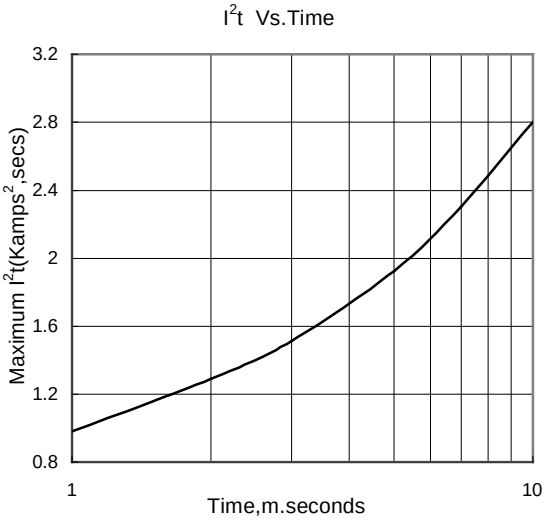
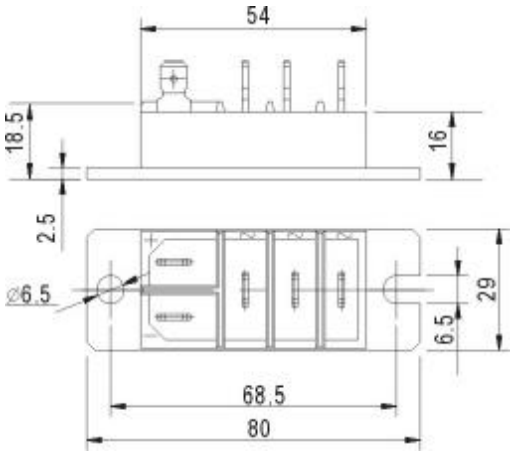
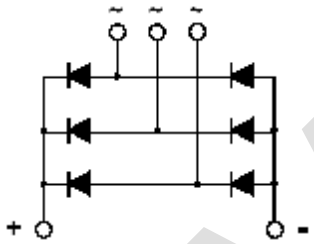


Fig.6

Outline:





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