



MDS50

Three Phase Bridge

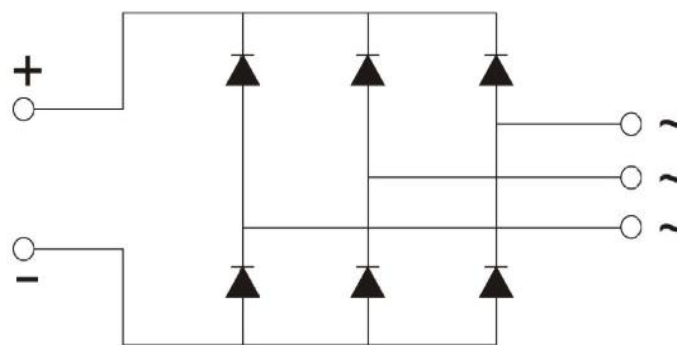
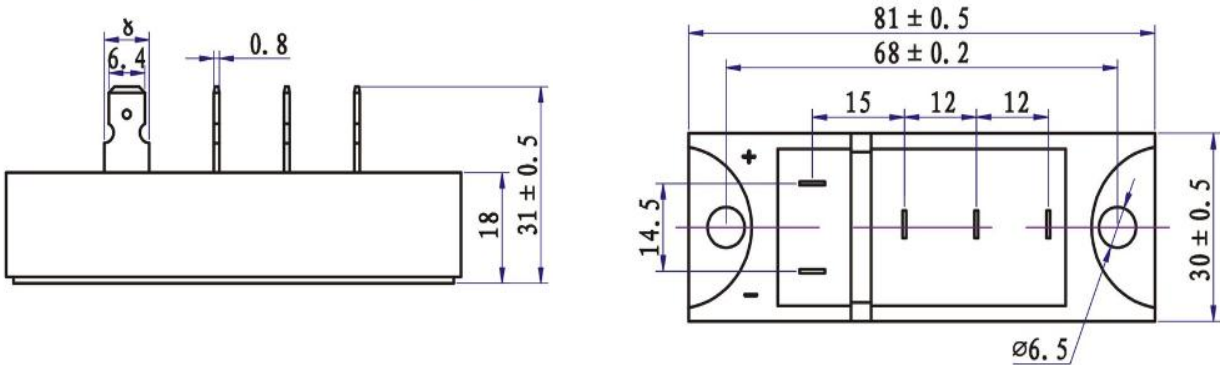


Specification of Products

OUTLINE DRAWING

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	Tj(°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>o</sub>	DC output current	Three-phase full wave rectifying circuit, T <sub>c</sub> =100°C	150			50	A
V <sub>RRM</sub>	Repetitive peak reverse voltage	V <sub>RRM</sub> t <sub>p</sub> =10ms V <sub>RSM</sub> =V <sub>DRM</sub> & V <sub>RRM</sub> +200V	150	600		2200	V
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			6	mA
I <sub>FSM</sub>	Surge forward current					0.43	KA
I <sup>2</sup> <sub>t</sub>	I <sup>2</sup> <sub>t</sub> for fusing coordination	10ms half sinewave V <sub>R</sub> =0.6V <sub>RRM</sub>	150			1.1	A <sup>2</sup> S*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			0.8	V
R <sub>F</sub>	Forward slop resistance					9.8	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =50A	25			1.1	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to heatsink	Single side cooled				0.75	°C/W
V <sub>iso</sub>	Isolation voltage	50Hz, R.M. S, t=1min I <sub>iso</sub> =1mA(max)		2500			V
F <sub>m</sub>	Terminal connection						N. m
	Mounting torque (M4)					1.5	N. m
T <sub>stg</sub>	Stored temperature			-40		125	°C/W
W <sub>t</sub>	Weight					108	g

Outside Dimension



CIRCUIT DIAGRAM

## Rating and Characteristic

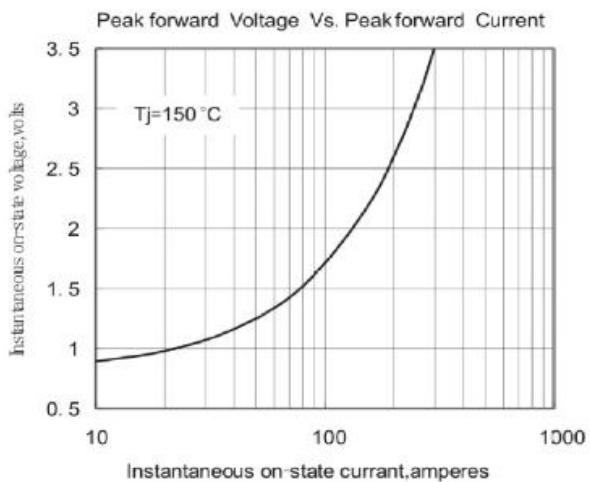


Fig. 1

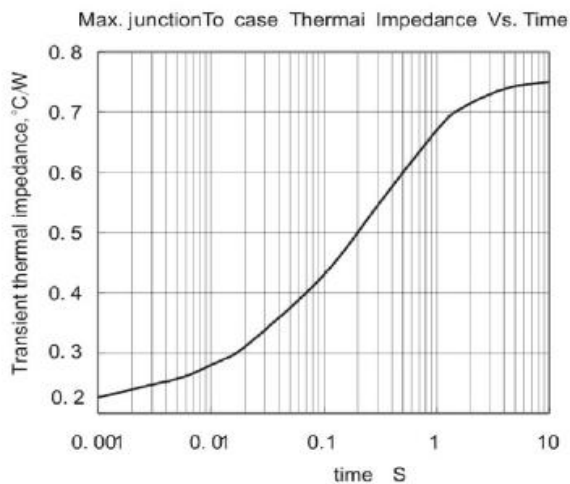


Fig. 2

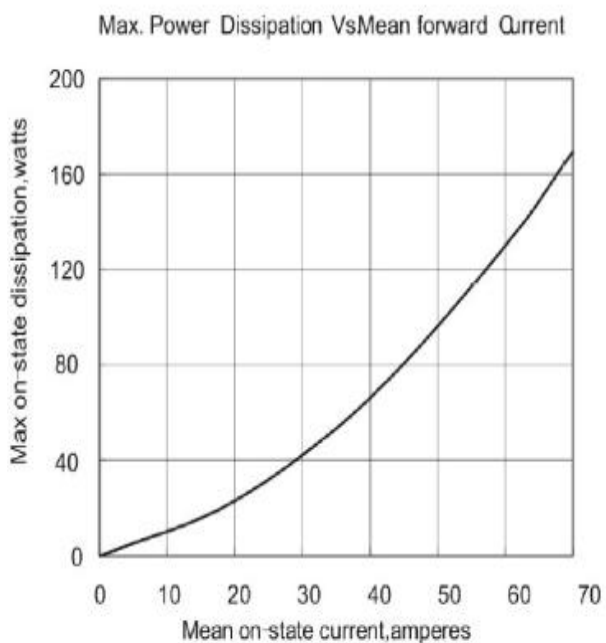


Fig. 3

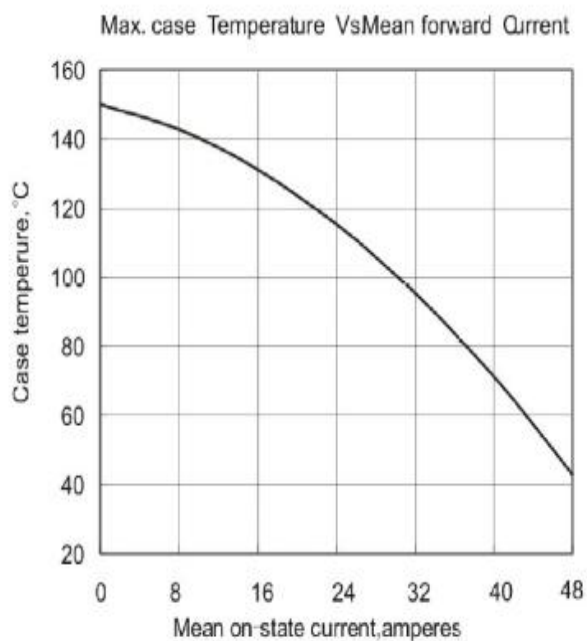


Fig. 4

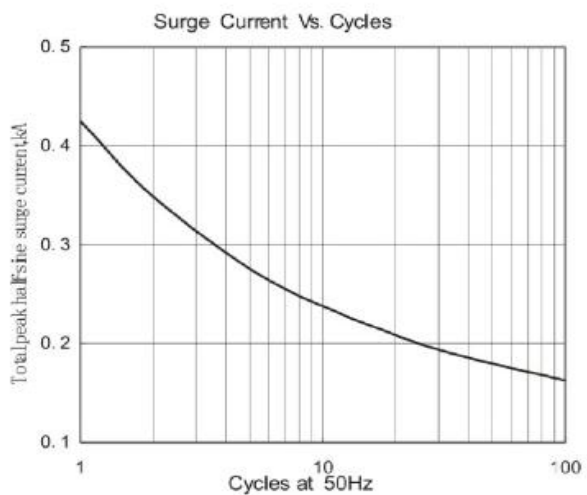


Fig. 5

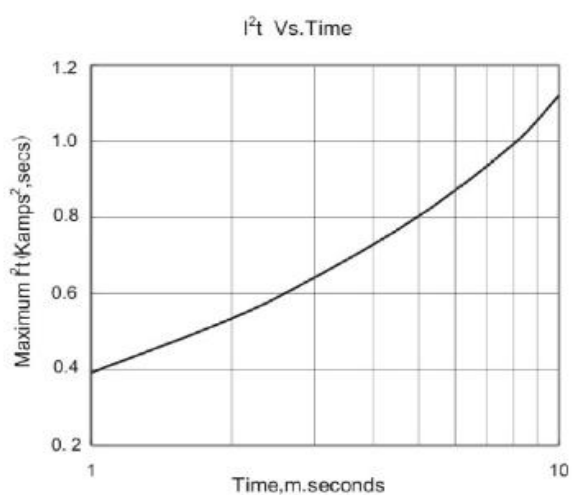


Fig. 6