

Diode Bridge & Thyristor

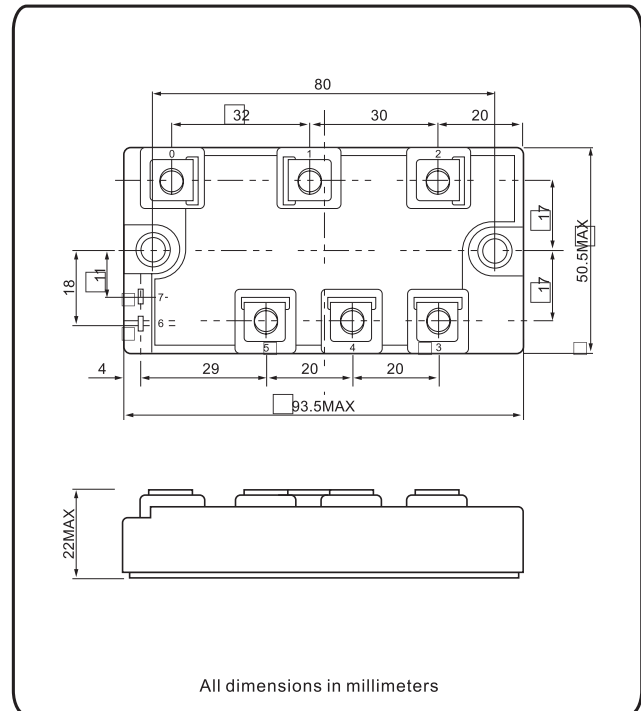
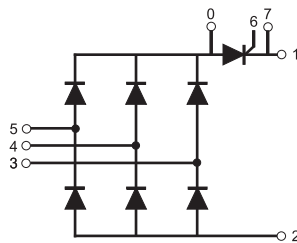
Features

- Diode bridge & thyristor
- Direct mounting to Heatsink
- Easy Connection
- Viso=2500VAC(RMS)

Typical Applications

- AC Inverters
- DC Motor Control
- Switching Power Supply

■ Circuit Configuration



Electrical Characteristics

Parameter		Condition	Value	Unit
I _O	Average rectified output current	3-Phase full wave rectifier	75	A
I _{TSM}	Surge on-state current	Half sine wave , 1pulse non-repetitive	1000	A
V _{RRM}	Repetitive peak reverse voltage	V _{RSM} =V _{RRM} x 1.1	800 to 1600	V
I _{RM}	Peak reverse current	T _j =125°C , V _{RM} =V _{RRM}	6	mA
I _{FSM}	Surge forward current	Half sine wave , 1pulse, non-repetitive	1000	A
I ² _t	Maximum I ² t for fusing	2~10ms	5000	A ² s
V _{FM}	Peak forward voltage drop	T _j =25°C	1.2	V
d _v /dt	Critical rate of rise of off-state voltage	T _j =125°C , V _D =2/3V _{DRM}	500	V/ μ s
d _i /dt	Max. Rate of rise of turned-on current		100	A/ μ s
V _{TM}	Peak on-state current	T _j =25°C	1.17	V
V _{GT}	Max. Required DC gate voltage to trigger	V _D =6V , I _T =1A , T _j =25°C	2.5	V
I _{GT}	Max. Required DC gate current to trigger	V _D =6V , I _T =1A , T _j =25°C	100	mA
I _H	Holding current	T _j =25°C	80	mA
R _{thj-c}	Thermal resistance	Junction to case	0.24	°C/W
R _{thc-f}	Thermal resistance	Case to Fin	0.15	°C/W
V _{iso}	RMS isolation voltage	Terminal to base , AC=1min	2500	V
T _j	Operating junction temperature range		-40 to 150	°C
T _{stg}	Storage temperature range		-40 to 125	°C
W _t	Approximate weight		150	g
F _m	Mounting torque	Mounting(M5)	2.4 to 2.8	N.m
		Terminal(M5)	2.4 to 2.8	