Thyristor Modules

TYPE: YZPST-MCC162-16io1

Features

- Industrial standard package
- Electrically insulated base plate
- Heat transfer through aluminium oxide ceramic insulated metal base plate
- Chip soldered on direct copper bonded AL_2O_3 ceramic
- Thyristor chip with center gate

Typical Applications

- DC motor control
- AC motor soft starters
- Temperature control
- Professional light dimming

V_{DRM}/V_{RRM}	T_j=25°C	1600	V
V_{RSM}	T_j=25°C	1700	V

Maximum Ratings

Symbol	Condition	Ratings	Unit
$I_{T(AV)}$	sin. 180; T_c =85°C,	181	A
I_{TRMS}	sin. 180; T_c =85°C,	300	A
I_{TSM}	T_{vj} =45°C; 10 ms	6000	A
	T_{vj} =125°C; 10 ms	5000	A
I^2t	T_{vj} =45°C; 8,3…10 ms	180	kA^2S
$(di/dt)_{cr}$	non-repetitive	150	A/us
V_{iso}	A.C. 1s / 1min.	3600/3000	V
T_j		-40 ~ + 125	°C
T_{stg}		-40 ~ + 125	°C
W	About	150	g

Electrical Characteristics

Symbol	Condition	Ratings	Unit
I_{DRM} /I_{RRM}	AtV_{DRM}, T_j=125°C	10	mA
V_T	On-State Current 150A, T_j=25°C	1.09	V
$V_{T(TO)}$	T_j=125°C	0.88	V
t_{gd}	T_j=25°C	2	us
t_q	T_j=100°C	150	us
I_{GT}/V_{GT}	T_j=25°C	150 / 2.5	mA/V
V_{GD}	T_j=125°C	0.2	V
$(dv/dt)_{cr}$	T_j=125°C	1000	V/us
I_H	T_j=25°C, max.	200	mA
I_L	T_j=25°C, max.	300	mA
$R_{th(j-c)}$	Per Module	0.155	K/W

Outline Drawing