YZPST Thyristor Modules

V_{DRM}	V_{RRM}	V_{RSM}
1600V	1600V	1700V

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifing gate

Typical Applications

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

Symbol	Conditions	Values	Units
$I_{T(AV)}$	sin. 180; T_C=85°C	106	A
I_{RMS}		180	
I_{TSM}	T_{vj}=25°C; 10ms	2250	A
I^2t	T_{vj}=25°C; 8.3…10ms	25	KA^2s
V_T	T_{vj}=25°C; I_T=300A	max. 1.65	V
I_{DD}	T_{vj}=130°C; V_{RD}=V_{RRM}; V_{DD}=V_{DRM}	max. 20	mA
I_{RD}			
t_{gd}	T_{vj}=25°C; I_G=1A; di_G/dt=1A/µs;	1	µs
t_{gr}	V_D=2/3V_{DRM}	2	
$(di/dt)_{cr}$	T_{vj}=130°C	max. 150	A/µs
$(dv/dt)_{cr}$	T_{vj}=130°C	max. 1000	V/µs
t_q	T_{vj}=130°C	100	µs
I_H	T_{vj}=25°C; typ. /max.	250	mA
I_L	T_{vj}=25°C; R_G=33Ω; typ. /max.	600	mA
V_{GT}	T_{vj}=25°C; d.c.	min.1.0	V
I_{GT}	T_{vj}=25°C; d.c.	min. 35	mA
V_{GD}	T_{vj}=130°C; d.c.	max. 0.25	V
I_{GD}	T_{vj}=130°C; d.c.	max.6	mA
$R_{th(j-c)}$	per thyristor /per module	0.28	K/W
$R_{th(c-s)}$	per thyristor /per module	0.2	K/W
T_{vj}		-40…+130	°C
T_{stg}		-40…+125	°C
V_{isol}	a.c. 50Hz; r.m.s.; 1s/1min.	3600/3000	V