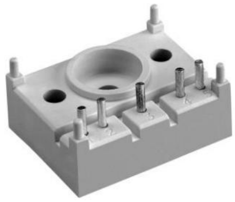
YZPST **YANGZHOU POSITIONING TECH. CO., LTD**

YZPST-Y70KQ08

70A 800V Thyristor Module
RoHS Compliant

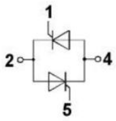
PRODUCT FEATURES

- Compact Design
- One screw mounting
- Heat transfer and isolation through DBC
- Glass passivation thyristor chips
- Low Leakage Current



APPLICATIONS

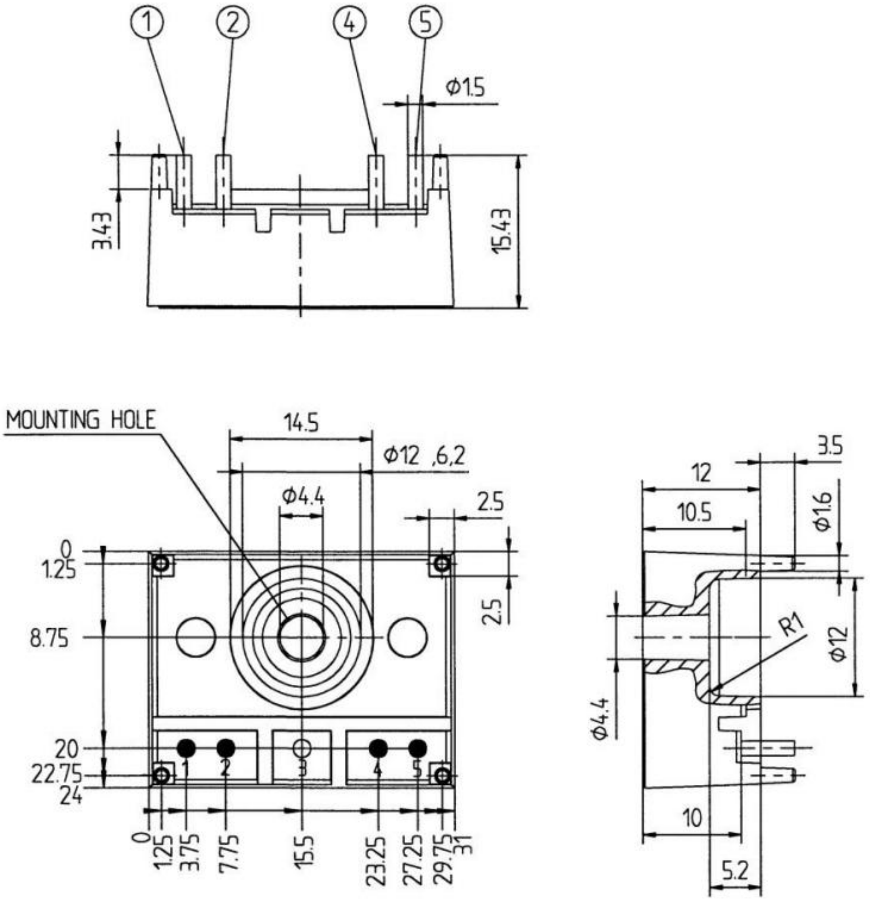
- Soft starters
- Temperature control
- Light control



ABSOLUTE MAXIMUM RATINGS(T C =25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Values	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	T_{vj}=125℃	800	V
V_{DRM}	Maximum repetitive peak off-state voltage			
V_{RSM}	Non-Repetitive Reverse Voltage	T_{vj}=125℃	900	V
V_{DSM}	Non-repetitive peak off-state voltage			
I_{RRM}	Maximum Repetitive Reverse Current	T_{vj}=125℃	5	mA
I_{DRM}	Maximum repetitive peak off-state Current			
$I_{T(AV)}$	Mean On-state Current	T_C=85℃	55	A
$I_{T(RMS)}$	RMS Current	T_C=85℃, sin180°	80	
I_{TSM}	Non Repetitive Surge Peak On-state Current	10ms, T_j=25℃	1100	
I^2t	For Fusing	10ms, T_j=25℃	6050	A^2S
V_{TM}	Peak on-state voltage	I_{TM}=150A	1.7	V
dv/dt	critical rate of rise of off-state voltage	V_D=2/3V_{DRM} Gate Open T_j=125℃	1000	V/us
I_{GT}	gate trigger current max.		80	mA
V_{GT}	gate trigger voltage max.		1.5	V
I_H	gate trigger current		200	mA
I_L	latching current		500	mA
Viso	AC 50Hz RMS 1min		2500	V
T_J	Junction Temperature		-40 to +125	℃
T_{STG}	Storage Temperature Range		-40 to +125	
R_{thJC}	Junction to Case Thermal Resistance(Per thyristor chip)		0.7	℃ /W
Torque	mounting force, Module to Sink		2.5	Nm
Tsolder	Teminals,10s		260	℃

Outlines


①
②
④
⑤
Φ1.5
3.43
15.43
MOUNTING HOLE
14.5
Φ12 ,6,2
Φ4.4
2.5
0
1.25
8.75
20
22.75
24
2.5
1
2
3
4
5
0
1.25
3.75
7.75
15.5
23.25
27.25
29.75
31
12
10.5
3.5
Φ1.6
R1
Φ12
Φ4.4
10
5.2