PHASE CONTROL THYRISTOR (Capsule Version) | 普通可控硅(平板式)

Features

- All diffuse techinics
- Ceramic disc type seal
- Middle trigger
- Bifacial cooled
- High current

Typical Applications

- Big power transformer
- AC & DC motor control
- AC & DC switch
- Phase control rectification
- Inverter

Ordering information Table

Device Code ST 1000 C 16 K
① ② ③ ④ ⑤

1 -ST=Standard thyristor
SST=Triac thyristor
KST=Fast thyristor
KE=Welder thyristor
GTO=High frequency thyristor

2 -Current code=$IT_{(AV)}$

3 -C=capsule version

4 -Voltage code=code x 100=V_{RRM}

5 -C=capsule case (A-puk) &(E-puk) L=capsule case (B-puk)
K=capsule case (K-puk) R=capsule case (R-puk)

Notice:For other different outline, pls contact ZENLI.

Explanation

- I_{GT},V_{GT},I_H are all T_A=25℃ test data, others are all T_A=T_{jm} test data.
- I^2t=I^2_{TSM} × t_W/2:t_W=Half sine wave current,when at 50Hz, I^2t=0.005I^2_{TSM}(A^2S)
- When at 60Hz, I_{TSM}(8.3ms)=I_{TSM}(10ms) × 1.066,T_j=T_{jm}
- I^2t(8.3ms)=I^2t(10ms) × 0.943,T_j=T_{jm}

Polarity

Standard thyristor
Fast thyristor

Triac thyristor

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	ST1000	ST1200	ST1500	Unit
$IT_{(AV)}$	Average on-state current	THS=55℃	1000	1200	1500	A
$I_{T(RMS)}$	RMS on-state current	THS=55℃	2200	2640	3300	A
V_{RRM}	Repetitive peak reverse voltage	THS=140℃	200-5000			V
I_{RRM}	Repetitive peak reverse voltage	THS=140℃	≤80.0	≤120.0	≤120.0	mA
V_{TM}	On-state voltage	THS=25℃	2.4	2.4	2.4	V
I_{TM}	On-state Current	THS=25℃	3000	3000	3000	A
I_{GT}	Gate Trigger Current	THS=25℃	40-300			mA
V_{GT}	Gate Trigger Voltage	THS=25℃	0.8-3.0			V
I_H	Holding Current	THS=25℃	≤300	≤300	≤300	mA
dv/dt	Rate Of Rise Of On-State Voltage	THS=25℃	≥500			V/us
di/dt	Rate Of Rise Of On-State Current	THS=25℃	≥200			A/us
R j-c	Peak gate forward voltage		≤0.022	≤0.020	≤0.017	℃/W
Tj	Junction temperature		-40~+125			℃
Tstg	Storage temperature		-40~+125			℃
MT	Mounting torque		21-30	21-30	27-34	KN
Wt	Weight	Typical value	480	480	530	g

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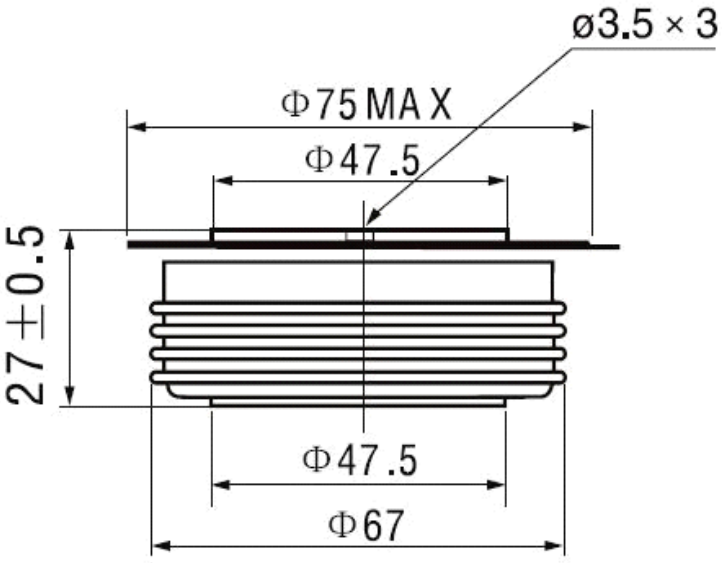
Outline table

(Dimension in mm)

E8 K-PUK



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