Semitronics Corp. STT70N24K0F

64 Commercial Street, Freeport, N.Y. 11520

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HIGH POWER THYRISTOR / THYRISTOR PHASE CONTROL MODULE

Features:

- **. High Voltage Capability**
- **. Electrically Isolated Base Plate**
- **. High Surge Capability**
- **. High dv/dt Capability**
- **. Hard soldered Joints for high reliability**

Typical Applications:

- **. DC Motor Control (machine Tools, etc.)**
- **. AC Motor Soft Starters**
- **. Temperature Control (ovens, chemical & oil processes, etc)**
- **. Professional light Control & Dimming (studios, theatres, etc)**
- **. Input Converters & Induction Motors**

ELECTRICAL CHARACTERISTICS AND RATINGS

Maximum Ratings

Symbol	Condition	Ratings	Unit
I_{TAVM}	Single phase，half wave，180° conduction， Tc：85C	70	A
I_{TSM}	10ms,Tj=125C	1450	A
I^2t	10ms, Tj=125C	10500	A^2S
$(Di/DT)_{cr}$	Tj=125C	100	A/us
Visol	A.C.1minute	3000	V
Tj		-40~+125	C
Tstg		-40~+125	C
W		220	g

Electrical Charaterisistics

Symbol	Condition	Ratings	Unit
V_{DRM}/V_{RRM}		2400	V
I_{DRM}	AtV_{DRM}，Single phase，half wave，Tj=125C	25	mA
I_{RRM}	AtV_{RRM}，Single phase，half wave，Tj=125C	25	mA
V_{TM}	On-State Current 300A，Tj=125C	2.30	V
I_{GT}	Tj=25C ，I_T=1A，V_D=6V	150	mA
V_{GT}	Tj=25C ，I_T=1A，V_D=6V	3	V
V_{GD}	Tj=125C ，V_D=1/2V_{DRM}	0.25	V
DV/DT	Tj=125C ，V_D=2/3V_{DRM},	1000	V/us
I_H	Tj=25C ，@ VD =6V RA=5	300 (max)	mA
I_L	Tj=25C ，@ Vd=6V RGK=>/=10 Igm=1A dig/dt-1A/us tg=20us	1200 (max)	mA
Tq	Tj=125C ，$I_{TM}=I_{TAVM}$,$V_{DM}=0.67V_{DRM}$	300	us
Rth(j-c)	Per thyristor	0.35	C /W

CASE OUTLINE AND DIMENSIONS. **Power Thyristor Module**

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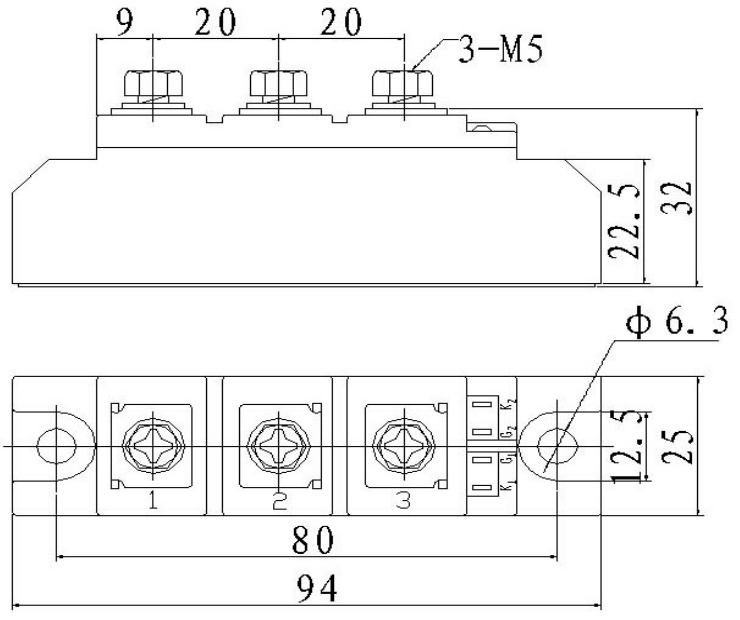

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