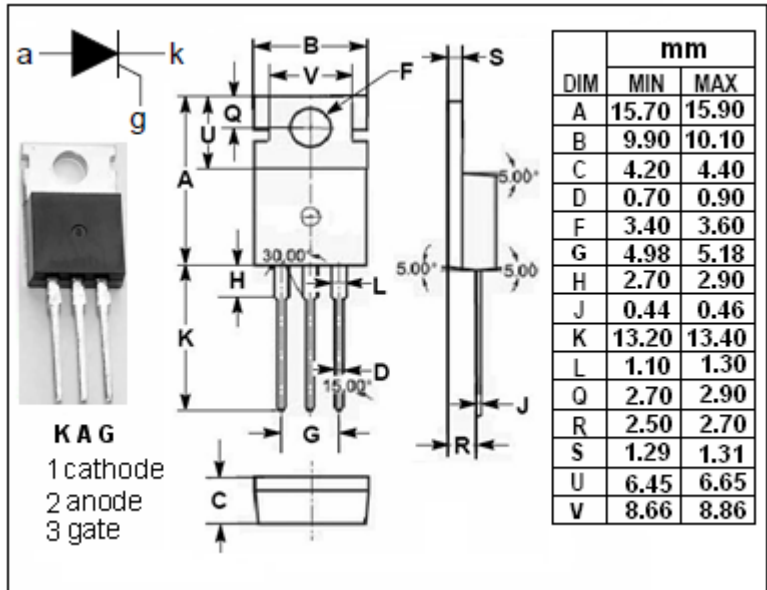


isc Thyristors

8P4M

APPLICATIONS

- Motor speed control for household appliance.
- Temperature control for heater and constant temperature box.
- Constant voltage power source and battery charger.
- Automotive application such as regulator.
- Various solid state relay etc.



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	400 (note:R _{GK} =1k Ω)	V
V _{RRM}	Repetitive peak reverse voltage	400 (note:R _{GK} =1k Ω)	V
I _{T(AV)}	On-state current	8(T _c =90°C, θ =180° Single phase(1/2wave)	A
I _{TSM}	Surge non-repetitive on-state current	100	A
P _{GM}	Peak gate power dissipation	5 (f ≥50Hz, Duty ≤10%)	W
P _{G(AV)}	Average gate power dissipation	0.5	W
I _{FGM}	Peak gate forward current	2 (f ≥50Hz, Duty ≤10%)	A
V _{RGM}	Peak gate reverse voltage	10	V
T _j	Junction temperature	-40 to + 125	°C

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , T _j =125°C			2	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , T _j =125°C			2	mA
V _{TM}	On-state voltage	I _{TM} = 25A			1.4	V
I _{GT}	Gate-trigger current	V _{DM} =6V; R _L =100 Ω			10	mA
V _{GT}	Gate-trigger voltage	V _{DM} =6V; R _L =100 Ω			1.5	V
V _{GD}	Gate non-trigger voltage	V _{DRM} =1/2V _{DRM} , T _j =125°C	0.2			V
I _H	Holding current	V _D =24V		6		mA
R _{th(j-c)}	Thermal resistance	Junction to case			3	°C/W