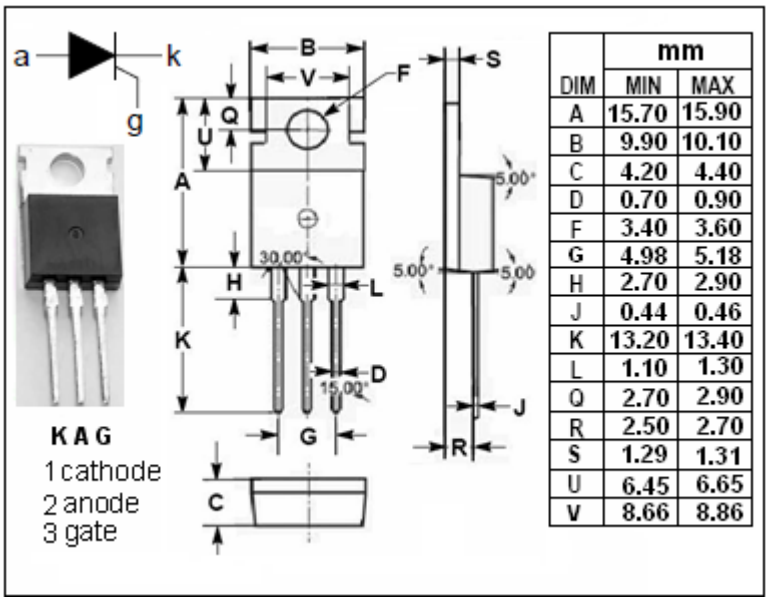
isc Thyristors 5P4M

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.



DIM	mm MIN	MAX
A	15.70	15.90
B	9.90	10.10
C	4.20	4.40
D	0.70	0.90
F	3.40	3.60
G	4.98	5.18
H	2.70	2.90
J	0.44	0.46
K	13.20	13.40
L	1.10	1.30
Q	2.70	2.90
R	2.50	2.70
S	1.29	1.31
U	6.45	6.65
V	8.66	8.86

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	400 (note:R_{GK}=1kΩ)	V
V_{RRM}	Repetitive peak reverse voltage	400 (note:R_{GK}=1kΩ)	V
$I_{T(AV)}$	On-state current	5(Tc=103℃, θ =180° Single phase(1/2wave)	A
I_{TSM}	Surge non-repetitive on-state current	80	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	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM},Tj=125℃			2	mA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM},Tj=125℃			2	mA
V_{TM}	On-state voltage	I_{TM}=10A			1.4	V
I_{GT}	Gate-trigger current	V_{DM}=6V;R_L=100Ω			10	mA
V_{GT}	Gate-trigger voltage	V_{DM}=6V;R_L=100Ω			1.5	V
V_{GD}	Gate non-trigger voltage	V_{DRM}=1/2V_{DRM},Tj=125℃	0.2			V
I_H	Holding current	V_D=24V		10		mA
$R_{th(j-c)}$	Thermal resistance	Junction to case			3	℃/W