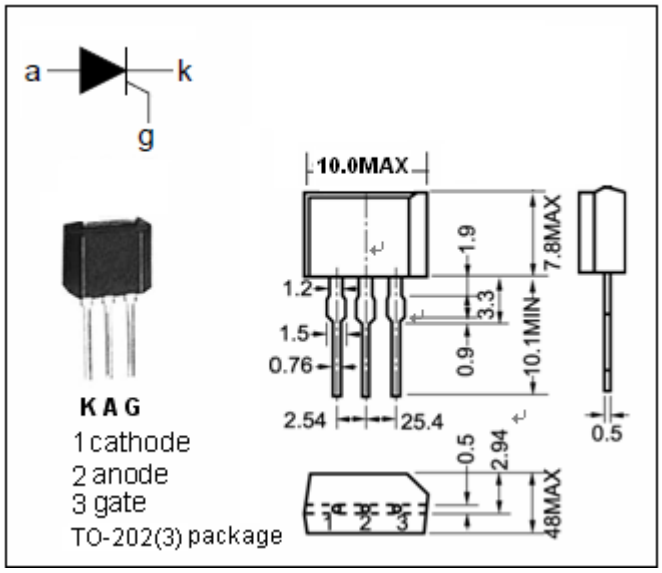
isc Thyristors 3P4M

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℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
$I_{T(AV)}$	On-state current	3	A
$I_{T(RMS)}$	RMS on-state current	4	A
I_{TSM}	Surge non-repetitive on-state current	25	A
T_j	Junction temperature	125	℃
T_{stg}	Storage temperature	-40 to + 125	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RRM}=600V, R_{GK}=1kΩ		20	μA
I_{DRM}	Repetitive peak off-state current	V_{DRM}=600V, R_{GK}=1kΩ		20	μA
V_{TM}	On-state voltage	I_{TM}=5A		1.7	V
I_{GT}	Gate-trigger current	V_{DM}=6V;R_L=100Ω	10	100	μA
V_{GT}	Gate-trigger voltage	V_{DM}=6V;R_L=100Ω	0.5	0.8	V
I_H	Holding current	I_T=0.1A; I_{GT}= 0.2mA		5	mA
$R_{th(j-c)}$	Thermal resistance	Junction to case		2.5	℃/W
$R_{th(j-a)}$	Thermal resistance	Junction to ambient		95	℃/W