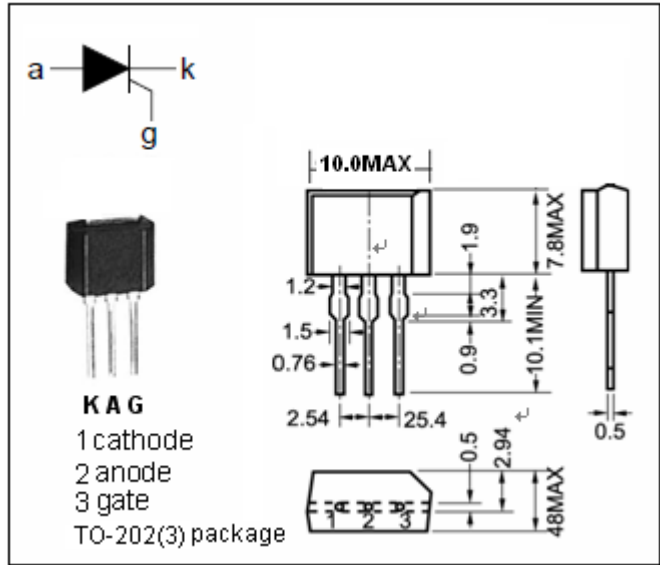


isc Thyristors

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°C)

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	°C
T _{stg}	Storage temperature	-40 to + 125	°C

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RRM} =600V, R _{GK} =1k Ω		20	μ A
I _{DRM}	Repetitive peak off-state current	V _{DRM} =600V, R _{GK} =1k Ω		20	μ A
V _{TM}	On-state voltage	I _{TM} =5A		1.7	V
I _{GT}	Gate-trigger current	V _{DM} =6V;R _L =100 Ω	10	100	μ A
V _{GT}	Gate-trigger voltage	V _{DM} =6V;R _L =100 Ω	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	°C/W
R _{th(j-a)}	Thermal resistance	Junction to ambient		95	°C/W