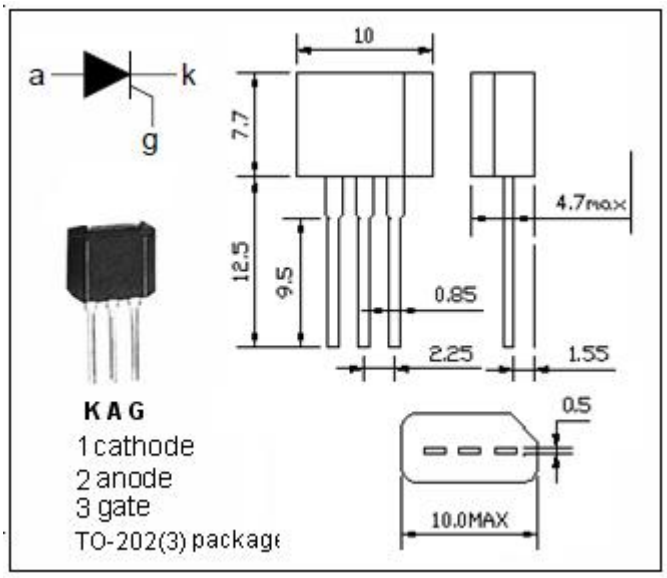
isc Thyristors X0405MF



APPLICATIONS

- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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 180° conduction angle	4	A
I_{TSM}	Non-repetitive surge peak on-state current t= 20ms	30	A
$P_{G(AV)}$	Average gate power dissipation T_j = 125℃	0.2	W
T_j	Junction temperature	125	
T_{stg}	Storage temperature	-40 to + 150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM}, V_{RM}=V_{RRM}, ,Tj=125℃		5 200	μA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM}, V_{DM}=V_{DRM} ,Tj=125℃		5 200	μA
V_{TM}	On-state voltage	I_{TM}= 8A, tp = 380 μs		1.8	V
I_{GT}	Gate-trigger current	V_D=12V, R_L=140Ω , R_{GK}=1KΩ	20	50	μA
V_{GT}	Gate-trigger voltage	V_D=12V, R_L=140Ω , R_{GK}=1KΩ		0.8	V
I_H	Holding current	V_D=24V, R_{GK}=1KΩ , I_{TM}=4A		6	mA

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