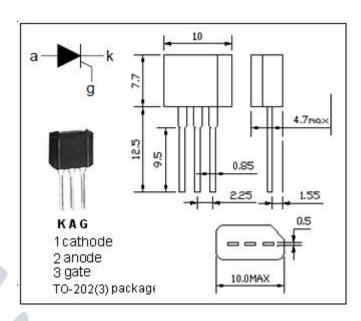


isc Thyristors X0405MF

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(Ta=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 180° conduction angle	4	Α
I _{TSM}	Non-repetitive surge peak on-state current t= 20ms	30	Α
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	$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=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°C		5 200	μ A
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , V _{DM} =V _{DRM} ,Tj=125°C		5 200	μ A
V_{TM}	On-state voltage	I _{TM} = 8A, tp = 380 μs		1.8	V
I _{GT}	Gate-trigger current	$V_D=12V$, $R_L=140 \Omega$, $R_{GK}=1K \Omega$	20	50	μ Α
V_{GT}	Gate-trigger voltage	$V_D=12V$, $R_L=140 \Omega$, $R_{GK}=1K \Omega$		0.8	V
I _H	Holding current	$V_D=24V$, $R_{GK}=1$ K Ω , $I_{TM}=4$ A	-	6	mA



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