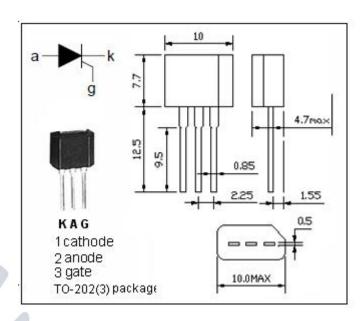


isc Thyristors Z0409MF

APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS(Ta=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	Α
I _{TSM}	Non-repetitive surge peak on-state current t= 20ms	20	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	$^{\circ}$

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		5 500	μ А
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , V _{DM} =V _{DRM} ,Tj=125°C		5 500	μ А
V_{TM}	On-state voltage	I _{TM} = 5.5A, tp = 380 μs		2.0	V
I _{GT}	Gate-trigger current	$V_D=12V$, $R_L=30 \Omega$		10	μ A
V_{GT}	Gate-trigger voltage	$V_D=12V$, $R_L=30 \Omega$		1.3	V
I _H	Holding current	I _{TM} =50mA		10	mA



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