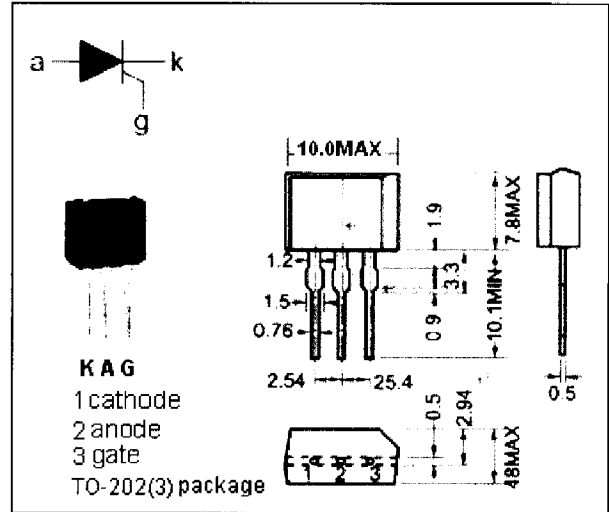


Thyristors

X0402MF

APPLICATIONS

- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.



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 180° conduction angle	4	A
I _{TSM}	Non-repetitive surge peak on-state current t = 20ms	20	A
P _{G(AV)}	Average gate power dissipation T _j = 125°C	0.2	W
T _j	Junction temperature	125	
T _{stg}	Storage temperature	-40 to + 150	°C

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM} , R _{GK} =1k Ω V _{RM} =V _{RRM} , R _{GK} =1k Ω, T _j =125°C		5 500	μ A
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , R _{GK} =1k Ω V _{DM} =V _{DRM} , R _{GK} =1k Ω, T _j =125°C		5 500	μ A
V _{TM}	On-state voltage	I _{TM} = 4A		1.7	V
I _{GT}	Gate-trigger current	V _{DM} =12V;R _L =140 Ω		200	μ A
V _{GT}	Gate-trigger voltage	V _{DM} =12V;R _L =140 Ω		0.8	V
I _H	Holding current	I _T = 0.05A		5	mA

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

