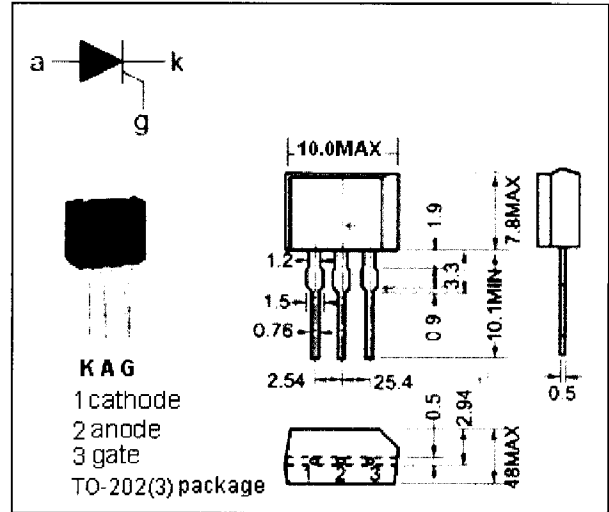


Thyristors

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

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