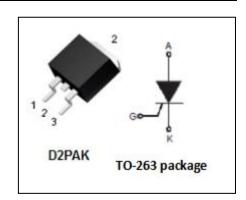


isc Thyristors

CME30E1600PZ

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection, motor control circuits in power tools and kitchen aids, in-rush current limiting circuits,
- . capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | | UNIT |
|--------------------|---|---------|--------------|
| V _{DRM} | Repetitive peak off-state voltage | 1600 | V |
| V_{RRM} | Repetitive peak reverse voltage | 1600 | V |
| I _{T(AV)} | Average on-stage current | 30 | Α |
| I _{TSM} | Surge non-repetitive on-state current @T _P =10ms | 260 | Α |
| P _{G(AV)} | Average gate power dissipation ,over any 20 ms period | 165 | W |
| T _j | Operating junction temperature | -40~150 | $^{\circ}$ C |
| T _{stg} | Storage temperature | -40~150 | $^{\circ}$ C |

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

| SYMBOL | PARAMETER | CONDITIONS | | MIN | MAX | UNIT |
|----------------------|---|---|----------------------|-----|------|------|
| I _{RRM} | Repetitive peak reverse current Repetitive peak off-state current | $V_{RM}=V_{RRM}, R_{GK}=220 \Omega$, | T _j =25℃ | | 0.05 | mA |
| /I _{DRM} | | | T _j =125℃ | | 2 | mA |
| V_{TM} | On-state voltage | I _{TM} = 30A;T _j =25℃ | | | 1.92 | V |
| I _{GT} | Gate-trigger current | $V_D = 6 \text{ V}; I_T = 0.1 \text{ A}$ | | 50 | mA | |
| V _{GT} | Gate-trigger voltage | $V_D = 6 \text{ V}; I_T = 0.1 \text{ A}$ | | | 1.3 | V |
| R _{th(j-c)} | Thermal resistance | Junction to case | | | 0.75 | °C/W |

NOTICE:

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