

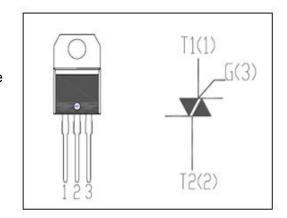
isc Thyristors T1635T-8I

DESCRIPTION

- With TO-220 packaging
- Operating in 3 quadrants
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- · Phase control
- Static switching on inductive or resistive load



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | MAX | UNIT | |
|---------------------|----------------------------------------------------------|---------------------|----------------------|---|
| V _{DRM} | Repetitive peak off-state voltage | @Tc=125℃ | 800 | V |
| V _{RRM} | Repetitive peak reverse voltage | @Tc=125℃ | 800 | V |
| I _{T(RSM)} | Average on-state current | @Tc=108℃ Tc=119℃ | | |
| I _{TSM} | Surge non-repetitive on-state current | 120 126 | Α | |
| $P_{G(AV)}$ | Average gate power dissipation (over any 20 ms period) | 1 | W | |
| T _j | Operating junction temperature | -40~150 | $^{\circ}\mathbb{C}$ | |
| T _{stg} | Storage temperature | -40~150 | $^{\circ}\mathbb{C}$ | |

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

| SYMBOL | PARAMETER | CONDITIONS | | | MIN | MAX | UNIT |
|------------------|-----------------------------------|------------------------------------------|---|----|-----|------|------------|
| I _{RRM} | Repetitive peak reverse current | V _R =V _{RRM} Rated; | · | | | 5 | μ A |
| I _{DRM} | Repetitive peak off-state current | V _D =V _{DRM} Rated; | | | | 1 | mA |
| V_{TM} | On-state voltage | I _T =22.6A | | | | 1.55 | V |
| I _{GT} | Gate-trigger current | | | I | | 35 | |
| | | V _D =12V;R _L =30 Ω | | II | | 35 | mA |
| | | | | Ш | | 35 | |
| V _{GT} | Gate-trigger voltage | V _D =12V;R _L =30 Ω | | | | 1.3 | V |
| Rth (j-c) | Junction to case | For DC | | | | 2.1 | °C/W |



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