

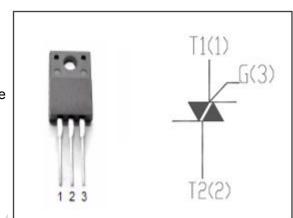
isc Thyristors BCR8FM-14LB

DESCRIPTION

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

APPLICATIONS

- · Solid state relays; heating and cooking appliances
- · Switching applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|--|---------|--------------|
| V_{DRM} | Repetitive peak off-state voltage | 700 | V |
| V _{RRM} | Repetitive peak reverse voltage | 700 | V |
| I _{T(RSM)} | Average on-state current @Tc=107℃ | 8 | Α |
| I _{TSM} | Surge non-repetitive on-state current 60HZ | 80 | Α |
| P _{G(AV)} | Average gate power dissipation (over any 20 ms period) | 0.5 | W |
| Tj | Operating junction temperature | -40~150 | $^{\circ}$ |
| 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 | V _R =V _{RRM} Rated; | T: 450% | , | | 0.0 | ^ |
| I _{DRM} | Repetitive peak off-state current | V _D =V _{DRM} Rated; Tj=150°C | | | | 2.0 | mA |
| V_{TM} | On-state voltage | I _T =12A | | | | 1.6 | V |
| I _{GT} | Gate-trigger current | I | | | | 30 | |
| | | V_D =6V;R _L =6 Ω ;RG=330 Ω | | II | | 30 | mA |
| | | III | | | | 30 | |
| V _{GT} | Gate-trigger voltage | V _D =6V;R _L =6 Ω ;RG=330 Ω | | | | 1.5 | V |
| Rth (j-c) | Junction to case | Half cycle | | | | 3.6 | °C/W |

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