

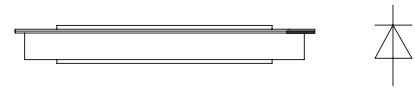
FEATURES

- 1). Low forward voltage drop
- 2). High reverse voltage
- 3). Hermetic metal cases with ceramic insulators

TYPICAL APPLICATIONS

- 1). All purpose high power rectifier diodes
- 2). High power resistance welding equipment
- 3). Non-controllable and half-controllable rectifiers
- 4). Controlled rectifiers

| | |
|-------------|-------------------------|
| $I_{F(AV)}$ | 6383 A |
| V_{RRM} | 200~400 V |
| I_{FSM} | 55 KA |
| I^2t | $15125 \cdot 10^3 A^2S$ |



THE MAIN PARAMETERS

| SYMBOL | | TEST CONDITIONS | $T_j(^{\circ}C)$ | VALUE | | | UNIT |
|---------------|--|---|------------------|-------|------|----------------|-------------------|
| | | | | Min | Type | Max | |
| $I_{F(AV)}$ | Mean forward current | 180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$ $T_{hs}=56^{\circ}C$ | 190 | | | 6383 6300 | A |
| V_{RRM} | Repetitive peak reverse voltage | V_{RRM} tp=10ms, $V_{RSM}=V_{RRM}+100V$ | 190 | 200 | | 400 | V |
| I_{RRM} | Repetitive peak current | $V_{RM}=V_{RRM}$ | 190 | | | 50 | mA |
| I_{FSM} | Surge on-state current | 10ms half sine wave, $V_R=0.6V_{RRM}$ | 190 | | | 55 | KA |
| I^2t | I^2T for fusing coordination | | | | | 15125 | $A^2s \cdot 10^3$ |
| V_{FO} | Threshold voltage | | 190 | | | 0.75 | V |
| r_F | Forward slop resistance | | | | | 0.052 | mΩ |
| V_{FM} | Peak on-state voltage | $I_{TM}=6400A, F=24KN$ | 190 | | | 1.10 | V |
| I_{rm} | Reverse recovery current | | | | | 128 | A |
| t_{rr} | Reverse recovery time | $I_{TM}=2000A, tp=1000 \mu s, di/dt=-20A/\mu s, V_R=50V$ | 190 | | | 5.5 | μs |
| Q_{rr} | Recovery charge | | | | | 352 | μC |
| $R_{th(j-h)}$ | Thermal resistance Junction to heatsink | At 180° sine, double side cooled Clamping force 24.0KN | | | | 0.0135 | °C /W |
| F_m | Mounting force | | | 19 | | 26 | KN |
| T_{stg} | Stored temperature | | | -40 | | 200 | °C |
| W_t | Weight | | | | 360 | | g |
| Size | Package box size | | | | | 160 × 145 × 65 | mm |

PERFORMANCE CURVES FIGURE

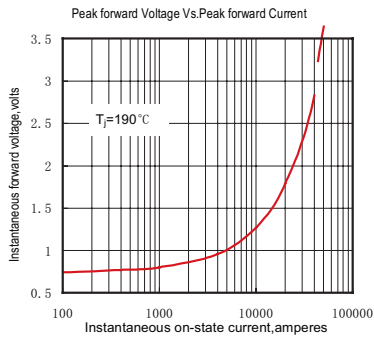


Fig.1

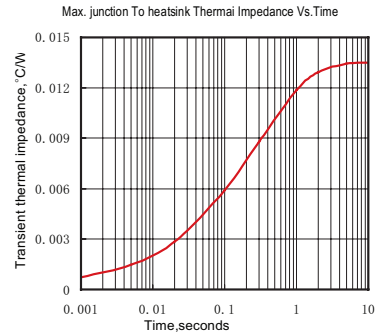


Fig.2

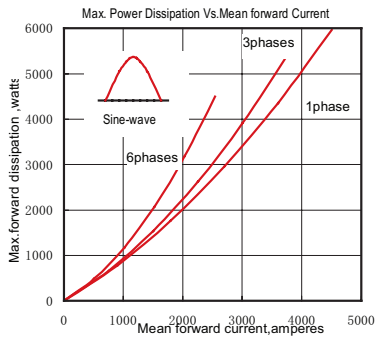


Fig.3

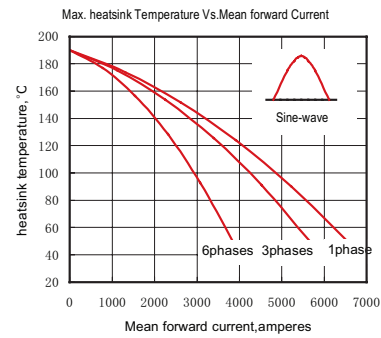


Fig.4

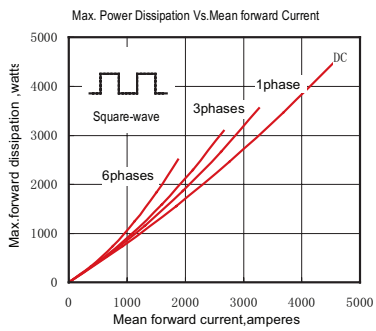


Fig.5

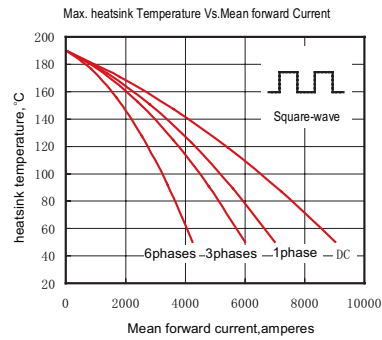


Fig.6

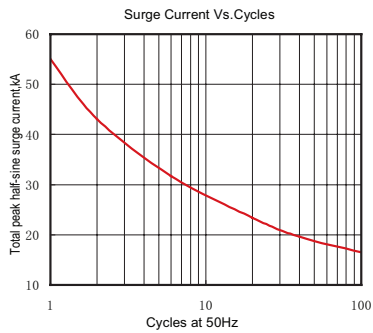


Fig.7

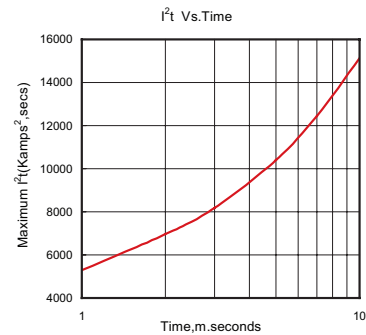
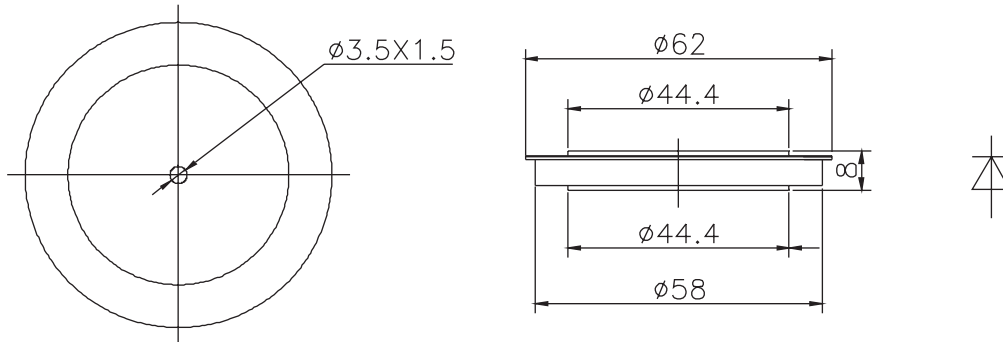


Fig.8

OUTLINE



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