

FEATURES

- 1). Center amplifying gate
- 2). Metal case with ceramic insulator
- 3). Low on-state and switching losses

TYPICAL APPLICATIONS

- 1). AC controllers
- 2). DC and AC motor control
- 3). Controlled rectifiers

| | |
|-------------------|------------------|
| $I_{T(AV)}$ | 1611A |
| V_{DRM}/V_{RRM} | 3100~4200V |
| I_{TSM} | 20 KA |
| I^2t | 2000 $10^3 A^2S$ |



THE MAIN PARAMETERS

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | $T_j(^{\circ}C)$ | VALUE | | | UNIT |
|------------------------|--|---|------------------|----------------|------|--------------|-------------------|
| | | | | Min | Type | Max | |
| $I_{T(AV)}$ | Mean on-state current | 180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$ $T_{hs}=70^{\circ}C$ | 125 | | | 1611 1250 | A |
| V_{DRM} V_{RRM} | Repetitive peak off-state voltage Repetitive peak reverse voltage | $V_{DRM} \& V_{RRM}, tp=10ms$ $V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 100V$ | 125 | 3100 | | 4200 | V |
| I_{DRM} I_{RRM} | Repetitive peak off-state current Repetitive peak reverse current | $V_D = V_{DRM}$ $V_R = V_{RRM}$ | 125 | | | 120 | mA |
| I_{TSM} | Surge on-state current | 10ms half sine wave | 125 | | | 20 | KA |
| I^2t | I^2T for fusing coordination | $V_R = 0.6V_{RRM}$ | 125 | | | 2000 | $A^2s \cdot 10^3$ |
| V_{TO} | Threshold voltage | | 125 | | | 1.17 | V |
| r_T | On-state slop resistance | | 125 | | | 0.35 | mΩ |
| V_{TM} | Peak on-state voltage | $I_{TM}=3220A, F=32KN$ | 125 | | | 2.30 | V |
| dv/dt | Critical rate of rise of off-state voltage | $V_{DM}=0.67V_{DRM}$ | 125 | | | 1000 | V/μs |
| di/dt | Critical rate of rise of on-state current | $V_{DM}=67\%V_{DRM}$ to 2000A, Gate pulse $t_r \leq 0.5 \mu s, I_{GM}=1.5A$ | 125 | | | 200 | A/μs |
| I_{rm} | Reverse recovery current | $I_{TM}=1500A, tp=1000 \mu s,$ $di/dt=-20A/\mu s,$ $VR=50V$ | 125 | | | 250 | A |
| t_{rr} | Reverse recovery time | | | | | 21 | μs |
| Q_{rr} | Recovery charge | | | | | 2100 | μC |
| I_{GT} | Gate trigger current | $V_A=12V, I_A=1A$ | 25 | 40 | | 300 | mA |
| V_{GT} | Gate trigger voltage | | | 0.8 | | 3.0 | V |
| I_H | Holding current | $V_{DM}=67\%V_{DRM}$ | 125 | 20 | | 300 | mA |
| V_{GD} | Non-trigger gate voltage | | | 0.3 | | | V |
| $R_{th(j-h)}$ | Thermal resistance Junction to heatsink | At 180° sine, double side cooled Clamping force 32KN | | | | 0.017 | $^{\circ}C/W$ |
| F_m | Mounting force | | | 27 | | 34 | KN |
| T_{stg} | Stored temperature | | | -40 | | 140 | $^{\circ}C$ |
| W_t | Weight | | | | 850 | | g |
| Size | Package box size | | | 160 × 145 × 65 | | | mm |

PERFORMANCE CURVES FIGURE

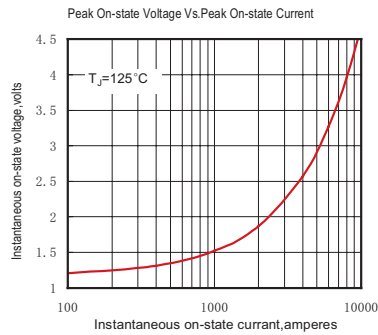


Fig.1

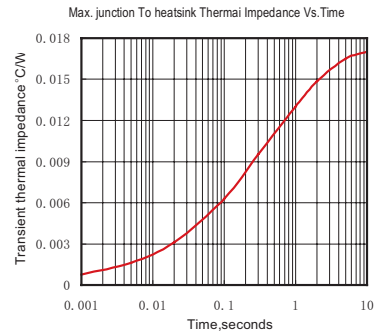


Fig.2

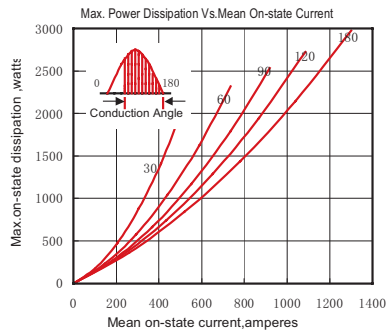


Fig.3

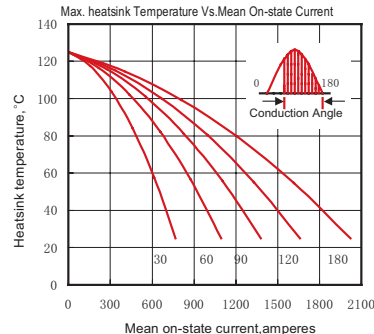


Fig.4

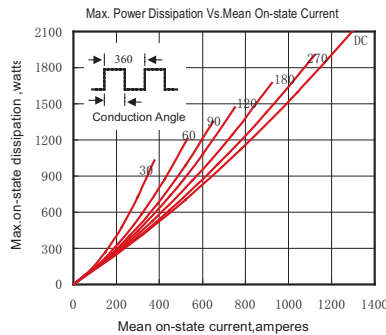


Fig.5

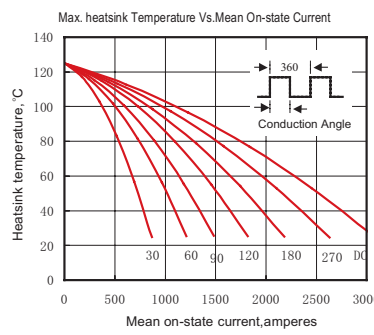


Fig.6

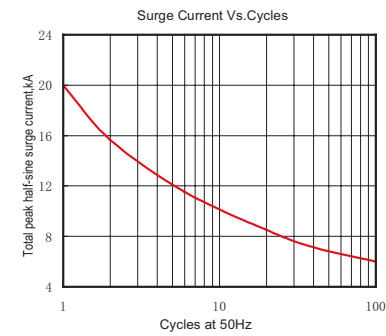


Fig.7

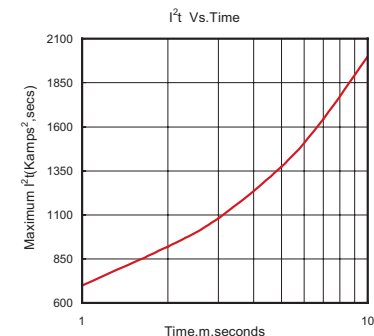


Fig.8

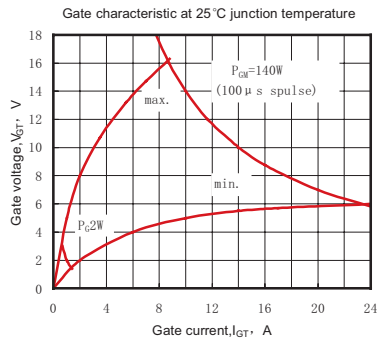


Fig.9

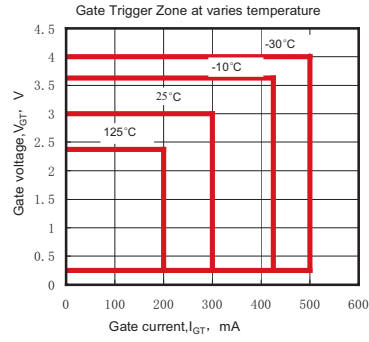
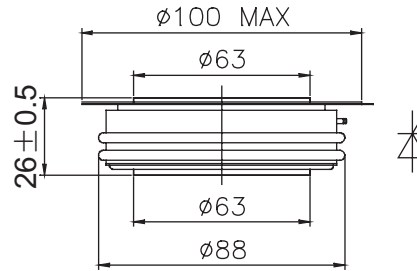
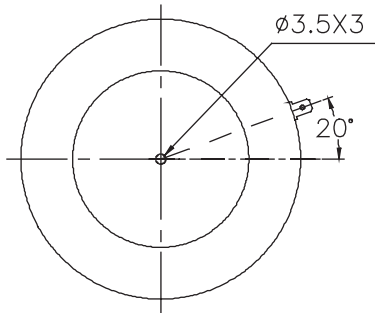


Fig.10

OUTLINE



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