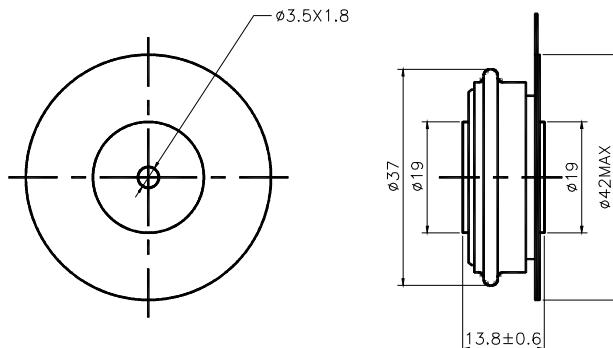


| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | T_j (°C) | VALUE | | | UNIT |
|---------------|--|---|------------|-------|------|-------|--------------------|
| | | | | Min | Type | Max | |
| $I_{F(AV)}$ | Mean forward current | 180° half sine wave 50Hz Double side cooled, $T_{hs}=55^\circ C$ | 150 | | | 560 | A |
| $I_{F(AV)}$ | Mean forward current | 180° half sine wave 50Hz Double side cooled, $T_{hs}=90^\circ C$ | 150 | | | 420 | A |
| V_{RRM} | Repetitive peak reverse voltage | V_{RRM} tp=10ms $V_{RsM} = V_{RRM} + 100V$ | 150 | 1100 | | 2000 | V |
| I_{RRM} | Repetitive peak current | at V_{RRM} | 150 | | | 16 | mA |
| I_{FSM} | Surge forward current | 10ms half sine wave $V_R=0.6V_{RRM}$ | 150 | | | 7.3 | KA |
| I^2T | I^2T for fusing coordination | | | | | 265 | $A^2s \times 10^3$ |
| V_{FO} | Threshold voltage | | 150 | | | 0.70 | V |
| r_F | Forward slop resistance | | | | | 0.86 | $m\Omega$ |
| V_{FM} | Peak on-state voltage | $I_{TM}=1500A, F=5KN$ | 150 | | | 1.99 | V |
| I_{rm} | Reverse recovery current | $I_{TM}=600A, tp=1000\mu s$, $di/dt=-40A/\mu s, V_R=50V$ | 150 | | | 74.8 | A |
| t_{rr} | Reverse recovery time | | | | | 4.0 | μs |
| Q_{rr} | Recovery charge | | | | | 159.7 | μC |
| $R_{th(j-h)}$ | Thermal resistance Junction to heatsink | | | | | 0.090 | $^\circ C / W$ |
| F_m | Mounting force | | | | 3.3 | | 5.5 KN |
| T_{stg} | Stored temperature | | | | -40 | | 160 $^\circ C$ |
| W_t | Weight | | | | | 50 | g |
| Outline | | ZT19aT | | | | | |

Outline



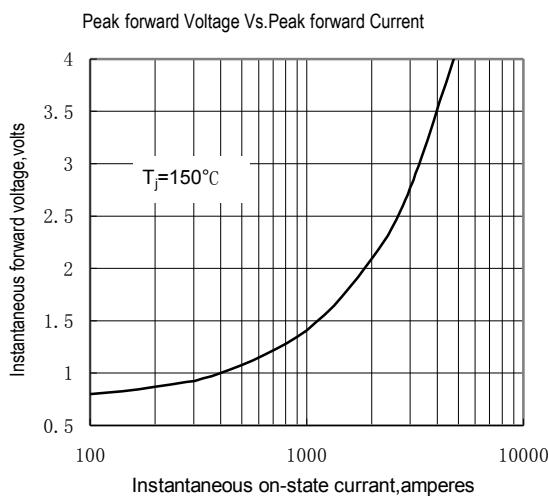


Fig.1

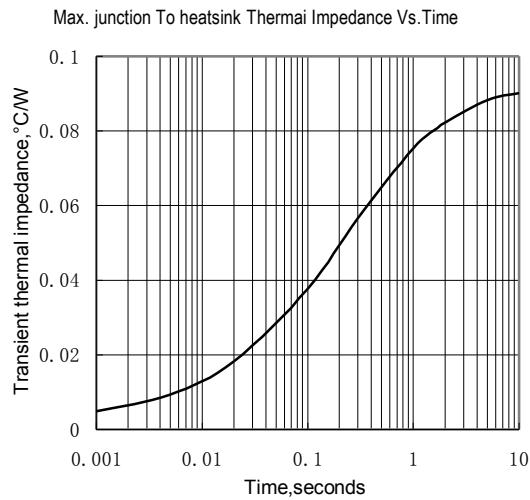


Fig.2

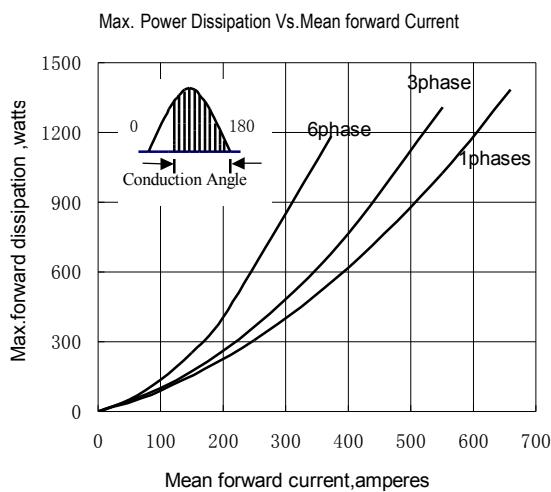


Fig.3

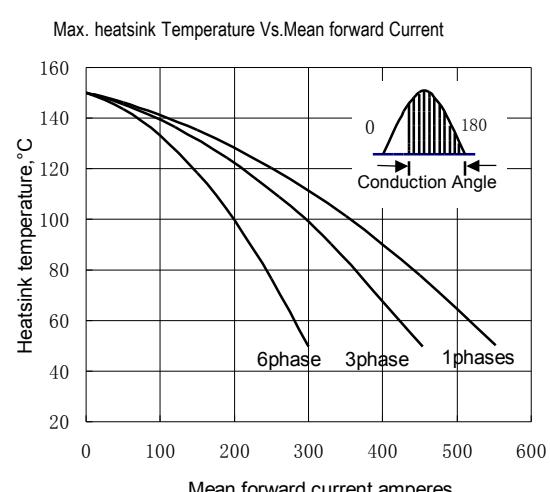


Fig.4

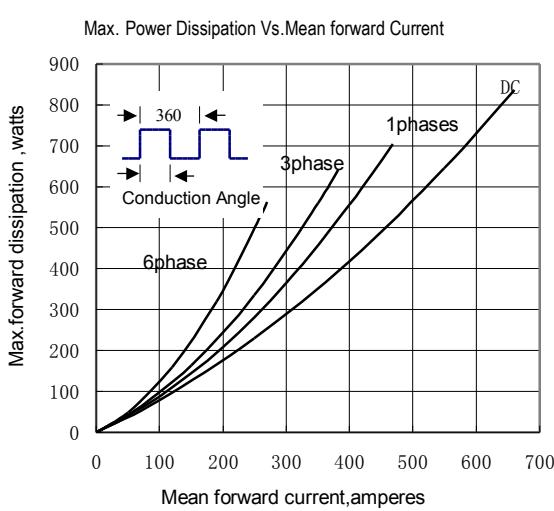


Fig.5

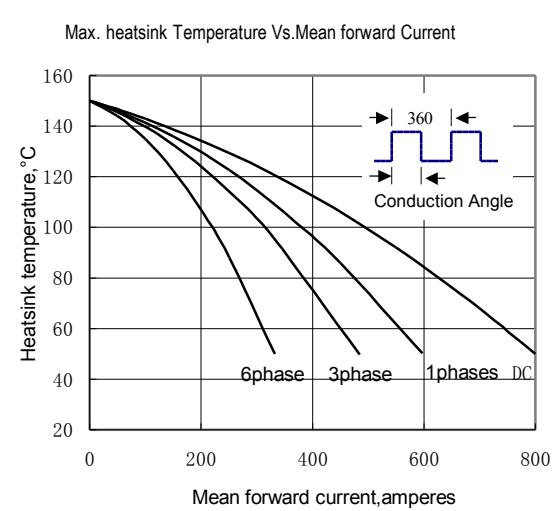


Fig.6