

Features

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

Typical Applications

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable

| | |
|-------------|---|
| $I_{F(AV)}$ | 1230 A |
| V_{RRM} | 200~1000 V |
| I_{FSM} | 11 kA |
| I^2t | 605 10³A²S |



| 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, | 190 | | | 1460 | A |
| | | | | | | 1230 | |
| V _{RRM} | Repetitive peak reverse voltage | V _{RRM} tp=10ms V _{RSM} = V _{RRM} +100V | 190 | 200 | | 1000 | V |
| I _{RRM} | Repetitive peak current | V _{RM} = V _{RRM} | 190 | | | 30 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | 190 | | | 11 | kA |
| I ² t | I ² T for fusing coordination | V _R =0.6V _{RRM} | | | | 605 | A ² s*10 ³ |
| V _{FO} | Threshold voltage | | 190 | | | 0.95 | V |
| r _F | Forward slop resistance | | | | | 0.31 | mΩ |
| V _{FM} | Peak on-state voltage | I _{FM} =1200A, F=7.0kN | 190 | | | 1.35 | V |
| Q _{rr} | Recovery charge | I _{FM} =1000A, tp=1000μs, di/dt=-20A/μs, V _R =50V | 190 | | 1600 | | μC |
| R _{th(j-c)} | Thermal resistance Junction to case | At 180° sine double side cooled Clamping force 7.0kN | | | | 0.045 | °C /W |
| R _{th(c-h)} | Thermal resistance case to heat sink | | | | | 0.010 | |
| F _m | Mounting force | | | 5.3 | | 10 | kN |
| T _{stg} | Stored temperature | | | -40 | | 190 | °C |
| W _t | Weight | | | | 80 | | g |
| Outline | ZT25aT | | | | | | |

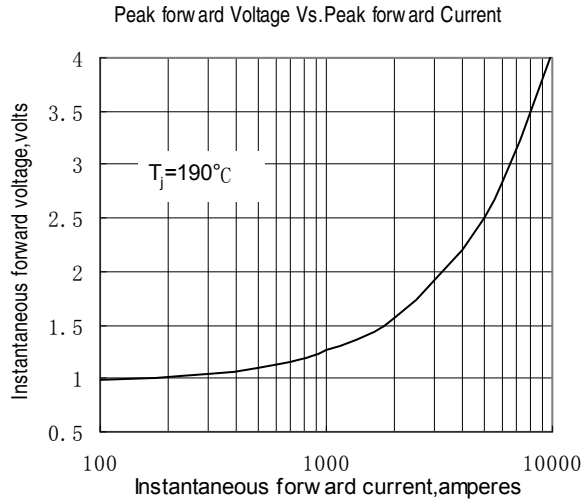


Fig.1

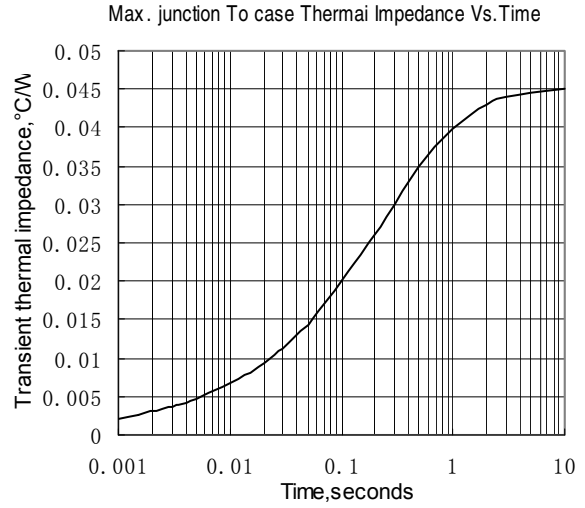


Fig.2

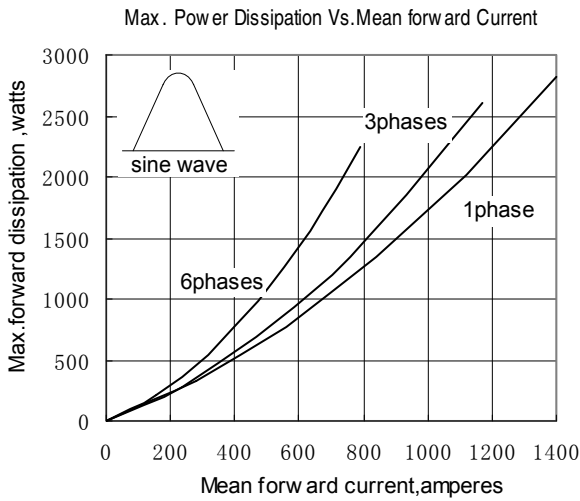


Fig.3

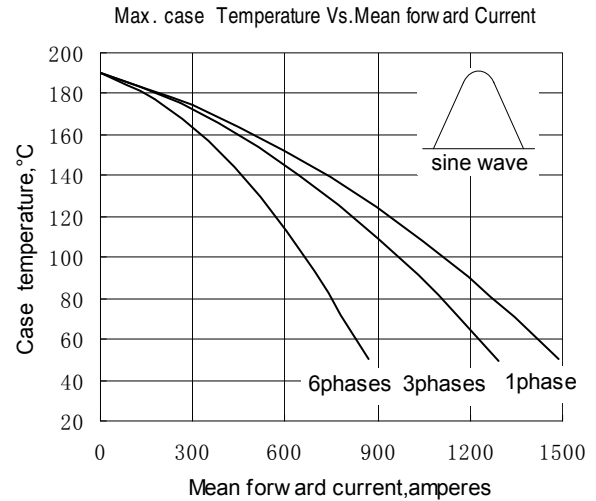


Fig.4

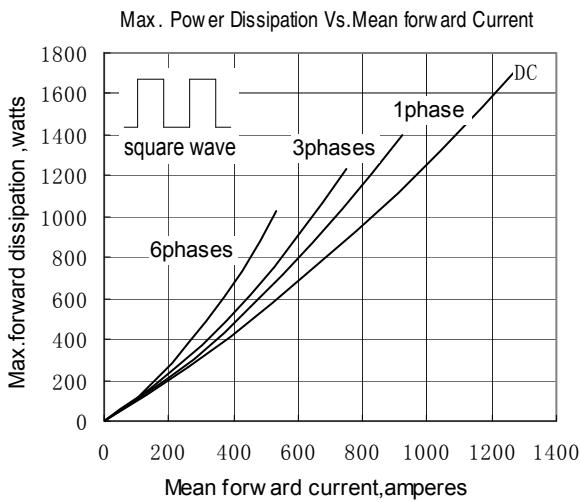


Fig.5

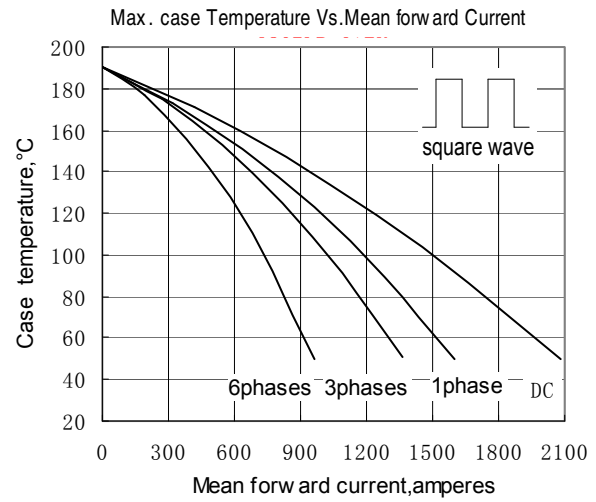


Fig.6

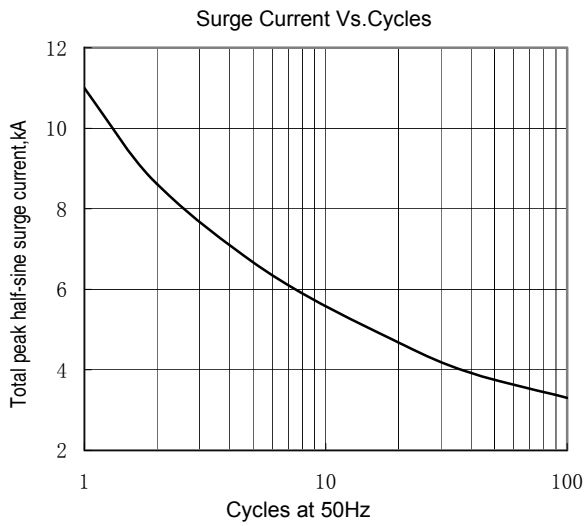


Fig.7

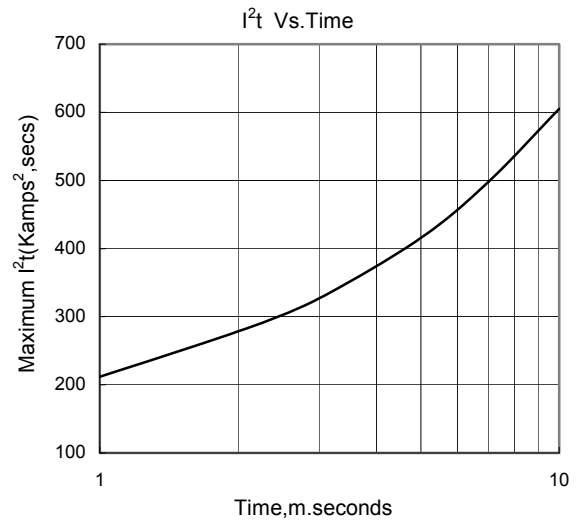


Fig.8

Outline:

