

Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ **1508A**
 V_{RRM} **2100~3000V**
 t_{rr} **8.0 μ s**



| 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 _C =85°C | 150 | | | 1508 | A |
| V _{RRM} | Repetitive peak reverse voltage | tp=10ms | | 150 | 2100 | | 3000 | V |
| I _{RRM} | Repetitive peak current | at V _{RRM} | | 150 | | | 145 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | | 150 | | | 20 | kA |
| I ² t | I ² t for fusing coordination | V _R =0.6V _{RRM} | | | | | 2000 | A ² s*10 ³ |
| V _{FO} | Threshold voltage | | | 150 | | | 1.58 | V |
| r _F | Forward slope resistance | | | | | | 0.30 | mΩ |
| V _{FM} | Peak forward voltage | I _{TM} =2000A, F=28kN | | 25 | | | 2.80 | V |
| I _{rm} | Reverse recovery current | I _{TM} =2000A, tp=1000 μ s, -di/dt=60A/ μ s, V _R =50V | | 150 | | 200 | | A |
| t _{rr} | Reverse recovery time | | | | | 8 | μ s | |
| Q _{rr} | Recovery charge | | | | | 800 | 1010 | μ C |
| R _{th(j-c)} | Thermal resistance Junction to case | At 180° sine: double side cooled Clamping force 28kN | | | | | 0.016 | °C /W |
| R _{th(c-h)} | Thermal resistance case to heat sink | | | | | 0.004 | | |
| F _m | Mounting force | | | | 21 | | 30 | kN |
| T _{stg} | Stored temperature | | | | -40 | | 160 | °C |
| W _t | Weight | | | | | 640 | | g |
| Outline | ZT54cT | | | | | | | |

Outline

