

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

$I_{F(AV)}$ **1330 A**
 V_{RRM} **1100~2000V**
 t_{rr} **6.0μs**



| 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 =70°C | 125 | | | 1330 | A |
| V _{RRM} | Repetitive peak reverse voltage | tp=10ms | | 125 | 1100 | | 2000 | V |
| I _{RRM} | Repetitive peak current | at V _{RRM} | | 125 | | | 80 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | | 125 | | | 19 | kA |
| I ² t | I ² t for fusing coordination | V _R =0.6V _{RRM} | | | | | 1805 | A ² s*10 ³ |
| V _{FO} | Threshold voltage | | | 125 | | | 1.37 | V |
| r _F | Forward slope resistance | | | | | | 0.21 | mΩ |
| V _{FM} | Peak forward voltage | I _{FM} =3000A, F=24kN | | 125 | | | 2.00 | V |
| I _{rm} | Reverse recovery current | | | 125 | | 76 | | A |
| t _{rr} | Reverse recovery time | I _{FM} =1000A, tp=2000μs, -di/dt=60A/μs, V _R =50V | | | | 6 | | μs |
| Q _{rr} | Recovery charge | | | | | 228 | | μC |
| R _{th(j-c)} | Thermal resistance Junction to case | DC double side cooled | | | | | 0.020 | °C/W |
| R _{th(c-h)} | Thermal resistance case to heat sink | Clamping force 24kN | | | | | 0.005 | |
| F _m | Mounting force | | | | 19 | | 26 | kN |
| T _{stg} | Stored temperature | | | | -40 | | 160 | °C |
| W _t | Weight | | | | | 440 | | g |
| Outline | P42 | | | | | | | |

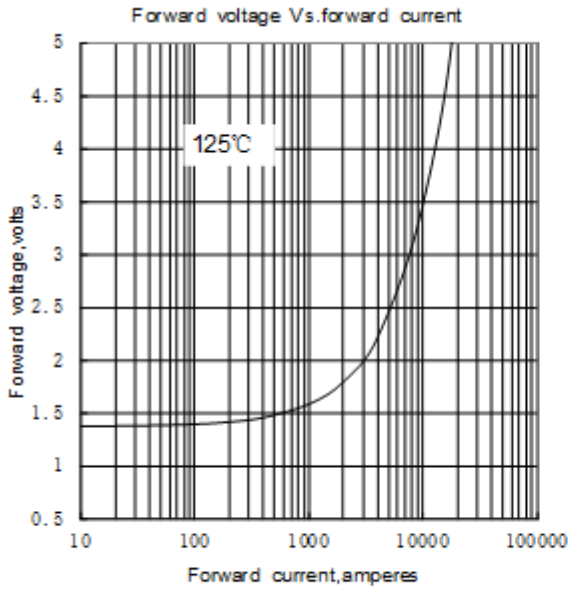


Fig.1

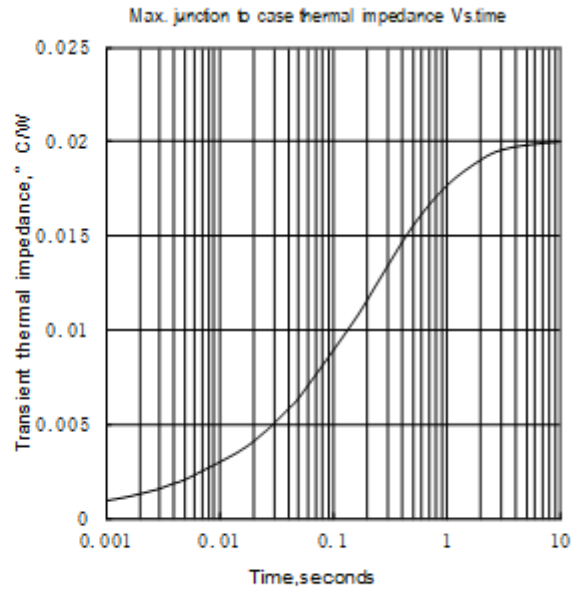


Fig.2

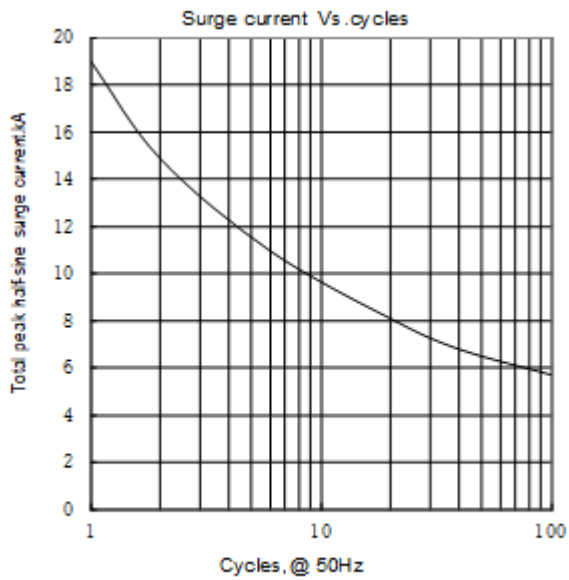


Fig.3

