

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | T _j (°C) | VALUE | | | UNIT |
|----------------------|--|--|---------------------|-------|------|-------|-----------------------------------|
| | | | | Min | Type | Max | |
| I _{T(RMS)} | RMS current | 50Hz sine wave Double side cooled, T _{HS} =55°C | 125 | | | 1058 | A |
| I _{T(RMS)} | RMS current | 50Hz sine wave Double side cooled, T _{HS} =80°C | 125 | | | 794 | A |
| V _{RRM} | Repetitive peak reverse voltage | V _{RRM} tp=10ms V _{RSM} = V _{DRM} &V _{RRM} +100V | 125 | 500 | | 1800 | V |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 125 | | | 40 | mA |
| I _{TSM} | Surge on-state current | 10ms half sine wave | 125 | | | 4.2 | KA |
| I ² T | I ² T for fusing coordination | V _R =0.6V _{RRM} | | | | 88 | A ² s*10 ⁻³ |
| V _{TO} | Threshold voltage | | 125 | | | 0.90 | V |
| r _T | On-state slop resistance | | | | | 1.02 | mΩ |
| V _{TM} | Peak on-state voltage | I _{TM} =900A, F=15KN | 125 | | | 1.821 | V |
| dv/dt | Critical rate of rise of off-state voltage | V _{DM} =0.67V _{DRM} | 125 | | | 50 | V/μs |
| di/dt | Critical rate of rise of on-state current | From 67%V _{DRM} to 1500A, Gate source 1.5A t _r ≤0.5μs Repetitive | 125 | | | 50 | A/μs |
| I _{GT} | Gate trigger current | V _A =12V, I _A =1A | 25 | 20 | | 300 | mA |
| V _{GT} | Gate trigger voltage | | | 0.8 | | 3.0 | V |
| I _H | Holding current | | | 20 | | 300 | mA |
| R _{th(j-h)} | Thermal resistance Junction to heatsink | At 180° sine double side cooled Clamping force 15KN | | | | 0.035 | °C /W |
| F _m | Mounting force | | | 10 | | 20 | KN |
| T _{stg} | Stored temperature | | | -40 | | 140 | °C |
| W _t | Weight | | | | 270 | | g |
| Outline | KT33cT | | | | | | |

Outline

