**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 rectifiers
- Controlled rectifiers

| | |
|---|---|
| $I_{F(AV)}$ | **1230A** |
| $V_{RRM}$ | **200 ～ 1400V** |
| $I_{FSM}$ | **11 kA** |
| $I^2t$ | **605 $10^3A^2S$** |

| 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 | 190 | | | 1230 | A |
| $V_{RRM}$ | Repetitive peak reverse voltage | tp=10ms | | 190 | 200 | | 1400 | V |
| $I_{RRM}$ | Repetitive peak current | at $V_{RRM}$ | | 190 | | | 30 | mA |
| $I_{FSM}$ | Surge forward current | 10ms half sine wave $V_R$=0.6$V_{RRM}$ | | 190 | | | 11 | kA |
| $I^2t$ | $I^2t$ for fusing coordination | | | | | | 605 | $A^2s*10^3$ |
| $V_{FO}$ | Threshold voltage | | | 190 | | | 0.95 | V |
| $r_F$ | Forward slope resistance | | | | | | 0.31 | mΩ |
| $V_{FM}$ | Peak forward voltage | $I_{FM}$=1200A, F=7.0kN | | 25 | | | 1.80 | V |
| $Q_{rr}$ | Recovery charge | $I_{FM}$=1000A, tp=4000μs, di/dt=-20A/μs, $V_R$=100V | | 190 | | 1600 | | μC |
| $R_{th(j-C)}$ | Thermal resistance Junction to case | D.C. 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 |
| $T_{vj}$ | Junction temperature | | | | -40 | | 190 | °C |
| $T_{stg}$ | Stored temperature | | | | -40 | | 190 | °C |
| $W_t$ | Weight | | | | | 80 | | g |
| Outline | P33 | | | | | | | |

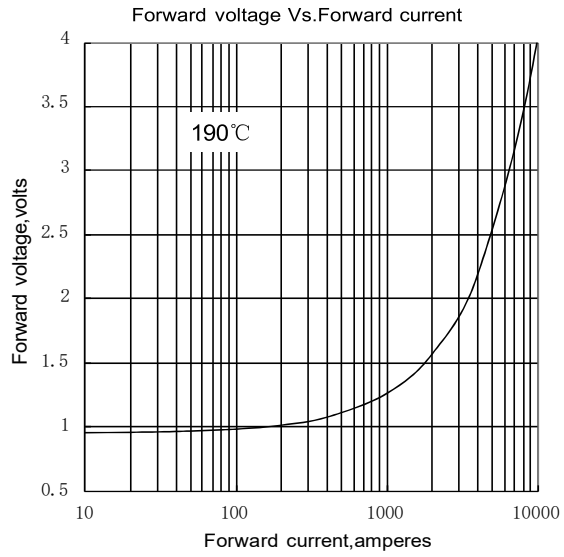


Fig1

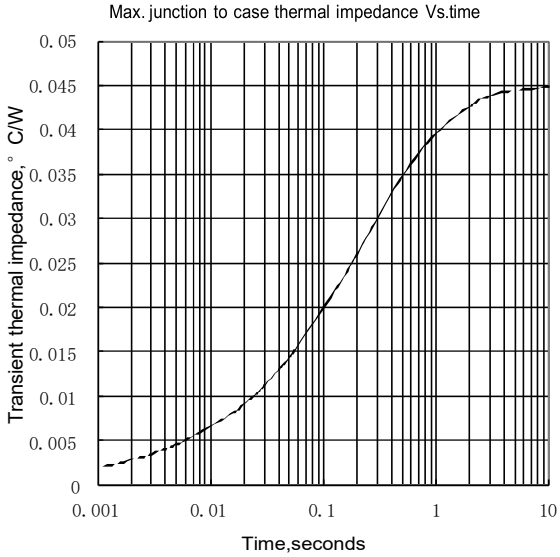


Fig2

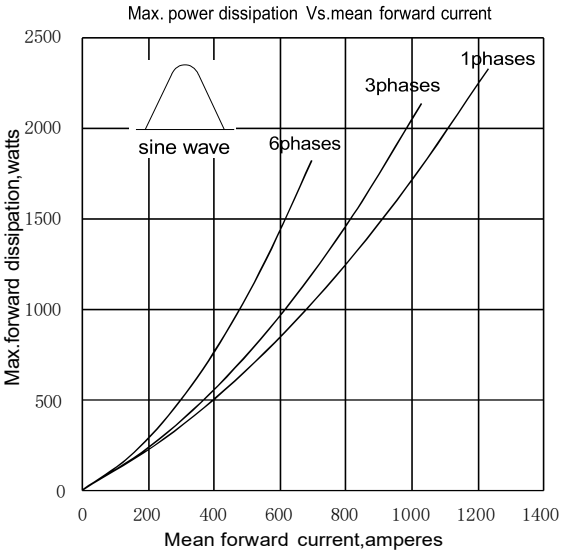


Fig3

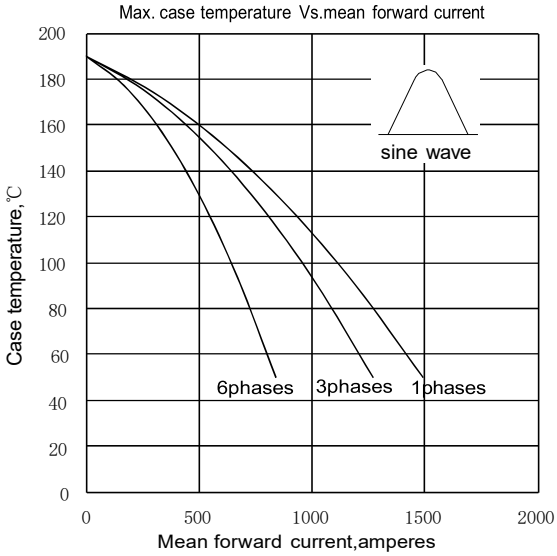


Fig4

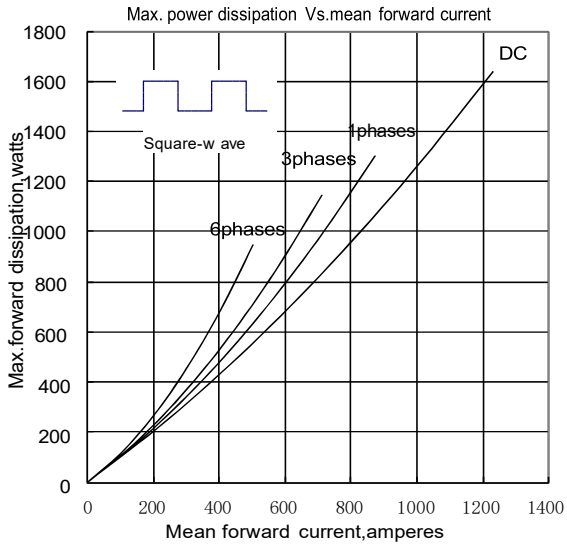


Fig5

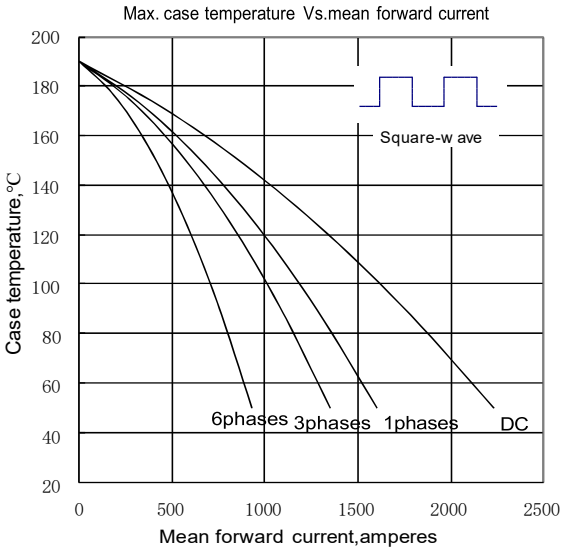


Fig6

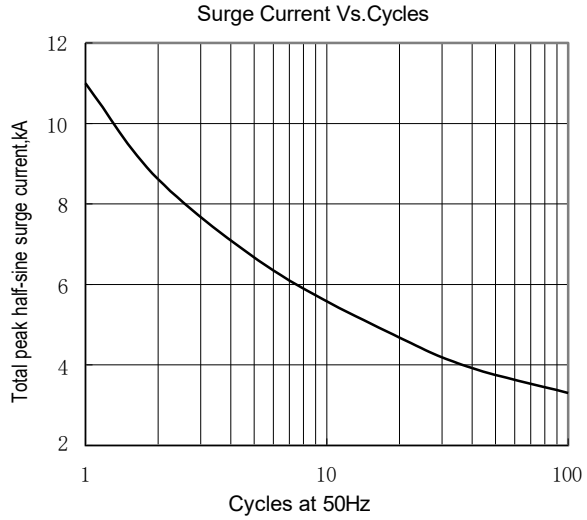


Fig.7

**Outline:**