**Features**

- Optimized for high current rectifiers
- Very low threshold voltage and slop resistance
- Very low thermal resistance

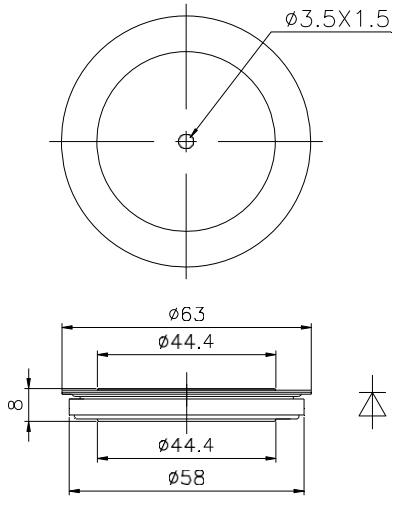
**Typical Applications**

- High current application For Welders up to 10000Hz
- Electrode plating

| | |
|---|---|
| $I_{F(AV)}$ | **5000A** |
| $V_{RRM}$ | **200 ～ 400V** |
| $I_{FSM}$ | **45 kA** |
| $I^2t$ | **10000 $10^3A^2S$** |

| 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 | 175 | | | 5000 | A |
| $V_{RRM}$ | Repetitive peak reverse voltage | tp=10ms | 175 | 200 | | 400 | V |
| $I_{RRM}$ | Repetitive peak current | at $V_{RRM}$ | 175 | | | 50 | mA |
| $I_{FSM}$ | Surge forward current | 10ms half sine wave $V_R$=0$V_{RRM}$ | 175 | | | 45 | kA |
| $I^2t$ | $I^2t$ for fusing coordination | | | | | 10000 | $10^3A^2s$ |
| $V_{FO}$ | Threshold voltage | $I_F$=5000-15000A | 175 | | | 0.82 | V |
| $r_F$ | Forward slope resistance | | | | | 0.032 | mΩ |
| $V_{FM}$ | Min Peak on-state voltage | $I_{FM}$=5000A,F=30kN | 25 | | | 1.10 | V |
| Irr | Recovery current | $I_{FM}$=2000A, tp=4000μs, di/dt=-60A/μs, $V_R$=100V | 175 | | | 40 | A |
| trr | Recovery time | | | | | 3.0 | μs |
| $Q_{rr}$ | Recovery charge | | | | | 100 | μC |
| $R_{th(j-c)}$ | Thermal resistance Junction to case | D.C. double side cooled Clamping force 30.0kN | | | | 0.010 | °C/W |
| $R_{th(c-h)}$ | Thermal resistance case to heat sink | | | | | 0.005 | |
| $F_m$ | Mounting force | | | 20 | | 40 | kN |
| $T_{vj}$ | Junction temperature | | | -40 | | 175 | °C |
| $T_{stg}$ | Stored temperature | | | -40 | | 175 | °C |
| $W_t$ | Weight | | | | 140 | | g |
| Outline | P61a | | | | | | |

**Outline:**

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