

## Maximum Ratings

| Symbol | Conditions | Values | Units |
|---|---|---|---|
| $V_R$ | | 600 | V |
| $V_{RRM}$ | | 600 | V |
| $I_{F(AV)}$ | $T_C$=110°C, Per Diode | 200 | A |
| | $T_C$=120°C, 20KHz, Per Module | 300 | A |
| $I_{F(RMS)}$ | $T_C$=110°C, Per Diode | 280 | A |
| $I_{FSM}$ | 1/2 Cycle , 50Hz, Sine | 2000 | A |
| | 1/2 Cycle , 60Hz, Sine | 2200 | A |
| $I^2t$ | $T_J$=45°C, t=10ms, 50Hz, Sine | 20000 | $A^2s$ |

## Electrical Characteristics

| Symbol | Conditions | Values | | | Units |
|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | |
| $I_{RM}$ | $V_R$=600V | -- | -- | 0.5 | mA |
| | $V_R$=600V, $T_J$=125°C | -- | -- | 3 | mA |
| $V_F$ | $I_F$=200A | -- | 1.15 | 1.6 | V |
| | $I_F$=200A, $T_J$=125°C | -- | 0.9 | 1.25 | V |
| trr | $I_F$=1A, $V_R$=30V, $di_F/dt$=-200A/μs | -- | 50 | -- | ns |
| trr | $V_R$=300V, $I_F$=200A, $di_F/dt$=-200A/μs, $T_J$=25°C | -- | 140 | -- | ns |
| $I_{RRM}$ | | -- | 15 | -- | A |
| trr | $V_R$=300V, $I_F$=200A, $di_F/dt$=-200A/μs, $T_J$=125°C | -- | 230 | -- | ns |
| $I_{RRM}$ | | -- | 25 | -- | A |

## Performance Curves

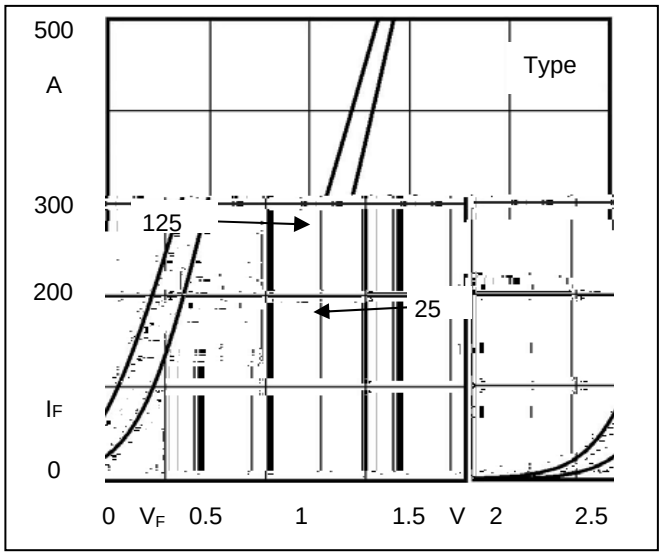



Fig1. Forward Voltage Drop vs Forward Current

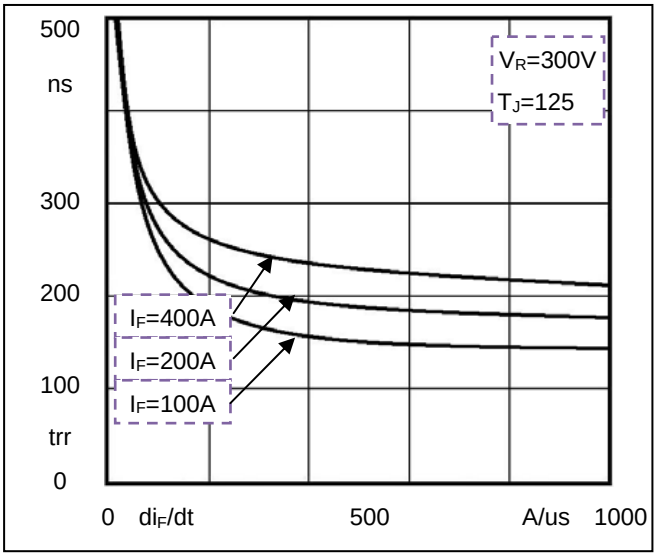



Fig2. Reverse Recovery Time vs $di_F/dt$

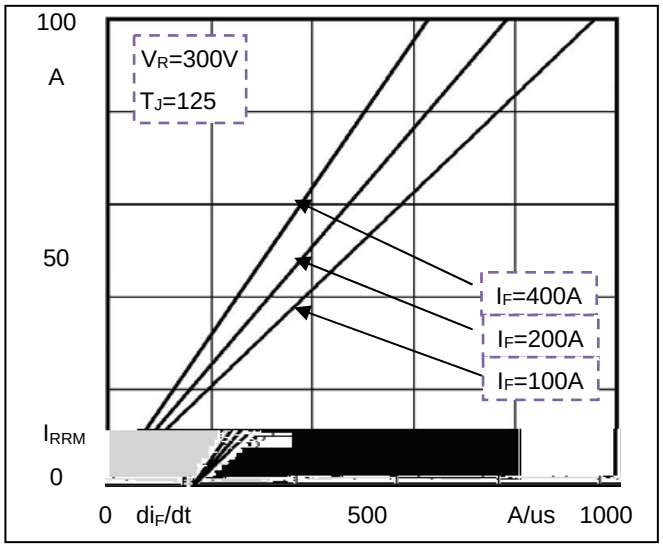



Fig3. Reverse Recovery Current vs $di_F/dt$

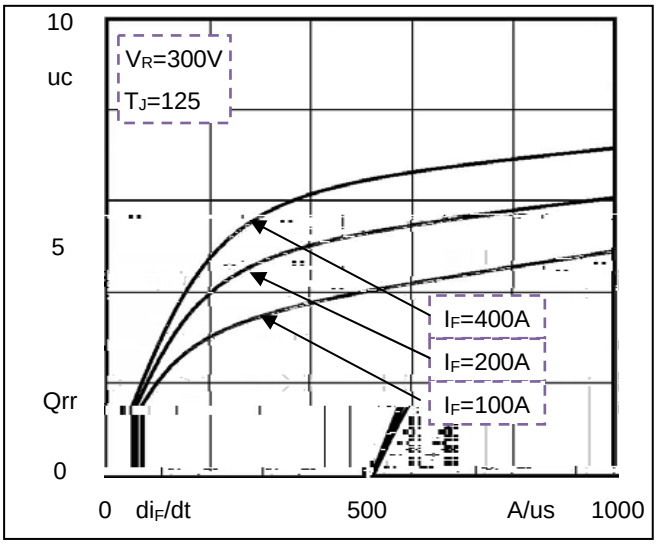
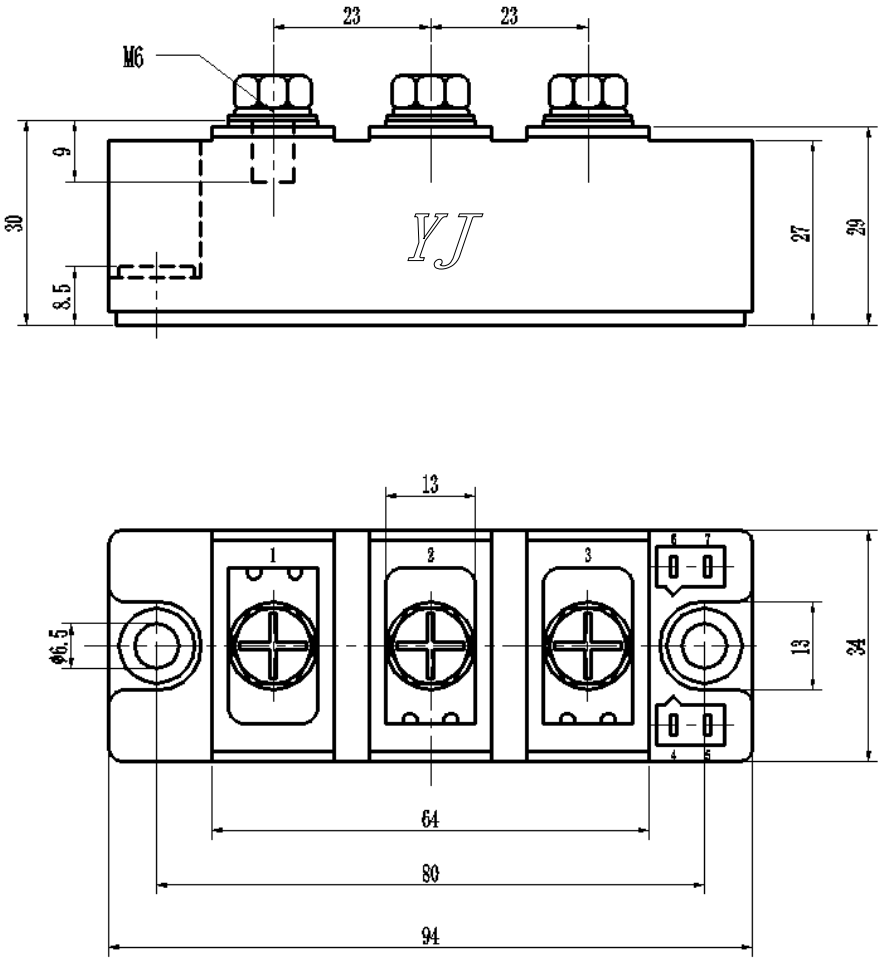



Fig4. Reverse Recovery Charge vs $di_F/dt$

## Package Outline Information

**CASE: F2**




**Dimensions in mm**