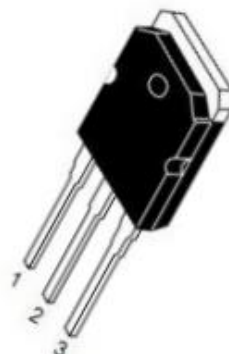


### ◆ Features:

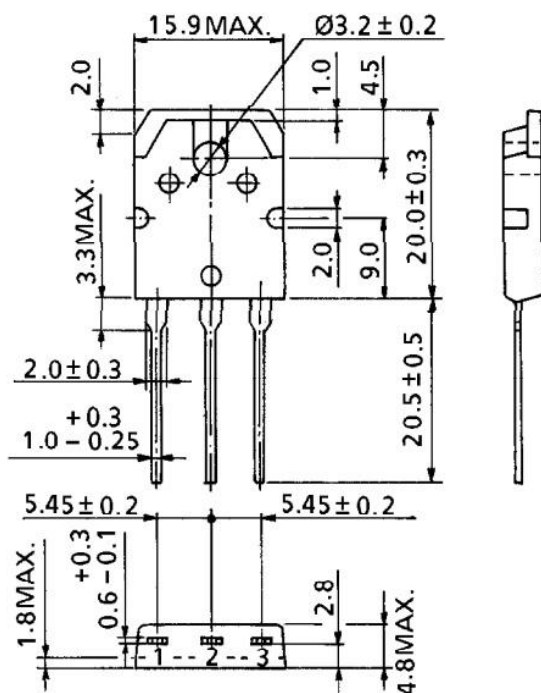
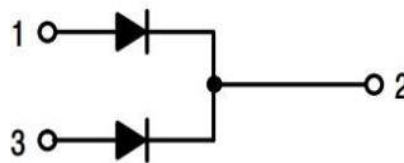
- ✧ High switching frequency  
开关频率高
- ✧ Low forward voltage drop  
正向压降低
- ✧ High efficiency and low power loss  
高效低功耗
- ✧ High volume of current and good capability of surge current  
大电流浪涌能力强

### ◆ Applications

- ✧ High frequency rectifier of switching mode power supplies  
高频整流器开关电源
- ✧ Freewheeling diodes  
续流二极管
- ✧ Polarity protection application  
极性保护应用
- ✧ DC-DC converters  
直流-直流变换器


**TO-3PN**


### PIN CONNECTIONS



### ◆ Absolute Maximum Ratings (Tc=25°C)

| Symbol     | Parameters                                                         | Ratings        | Unit |
|------------|--------------------------------------------------------------------|----------------|------|
| $V_{RRM}$  | Repetitive Peak Reverse Voltage<br>最大反向重复峰值电压                      | <b>1200</b>    | V    |
| $V_{RWM}$  | Working peak reverse voltage<br>反向峰值工作电压                           | <b>1200</b>    | V    |
| $V_R$      | Maximum DC blocking voltage<br>最大直流反向电压                            | <b>1200</b>    | V    |
| $I_F (AV)$ | Maximum average forward rectified current Total device<br>最大正向平均电流 | <b>15</b>      | A    |
| $I_{FSM}$  | Peak Forward Surge Current<br>正向峰值浪涌电流                             | <b>400</b>     | A    |
| $T_j$      | Operating junction temperature range<br>结温                         | <b>175</b>     | °C   |
| $T_{stg}$  | Storage temperature range<br>贮存温度                                  | <b>-55~175</b> | °C   |

### ◆ Electrical characteristics

| Symbol        | Parameters                                                 | Min | Typical    | Max            | Units   | Conditions                                                                    |
|---------------|------------------------------------------------------------|-----|------------|----------------|---------|-------------------------------------------------------------------------------|
| $I_R$         | Maximum Reverse Leakage Current (Note 1)<br>最大反向瞬态电流       | --  | --<br>10   | <b>2</b><br>-- | $\mu A$ | $V_R=1200V, T_C=25\text{ }^{\circ}C$<br>$V_R=1200V, T_C=125\text{ }^{\circ}C$ |
| $V_F$         | Maximum Instantaneous Forward Voltage (Note 2)<br>最大瞬态正向压降 | --  | <b>2.0</b> | <b>2.4</b>     | V       | $I_F=15A, T_C=25\text{ }^{\circ}C$                                            |
| $R_{th(j-c)}$ | Typical Thermal Resistance, Junction to Case<br>结到外壳的典型热阻  | --  | --         | <b>2.8</b>     | °C/W    |                                                                               |
| $T_{rr}$      | Reverse Recovery Time<br>恢复时间                              | --  | 32         | --             | ns      | $I_F=1A, V_R=30V,$<br>$di/dt=-200A/\mu s$                                     |

Note 1: 2.0 $\mu s$  Pulse Width, f=1.0KHz

Note 2: Pulse Test : 300 $\mu s$  Pulse Width, 1% Duty Cycle