

## Low IR Schottky barrier diode

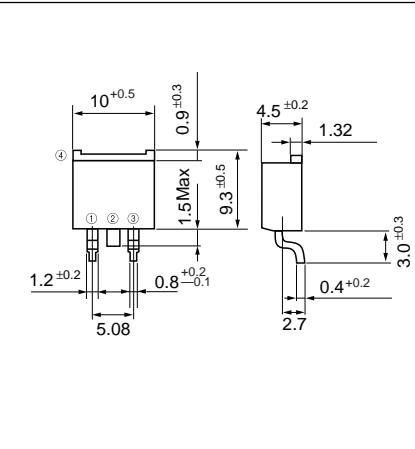
### ■ Features

- Low IR
- Low VF
- Center tap connection

### ■ Applications

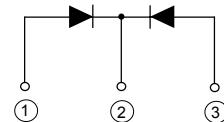
- High frequency operation
- DC-DC converters
- AC adapter

### ■ Outline drawings, mm



Package : T-pack  
Epoxy resin UL : V-0

### ■ Connection diagram



### ■ Maximum ratings and characteristics

- Maximum ratings

| Item   | Symbol           | Conditions                                     | Rating      | Unit |
|--|------------------|--|-------------|------|
| Repetitive peak surge reverse voltage          | V <sub>RSM</sub> | tw=500ns, duty=1/40                            | 45          | V    |
| Repetitive peak reverse voltage                | V <sub>RRM</sub> |  | 45          | V    |
| Isolating voltage                              | V <sub>iso</sub> | Terminals-to-Case, AC.1min.                    | 1500        | V    |
| Average output current                         | I <sub>O</sub>   | Square wave, duty=1/2<br>T <sub>c</sub> =122°C | 30 *        | A    |
| Non-repetitive surge current                   | I <sub>FSM</sub> | Sine wave 10ms                                 | 160         | A    |
| non-repetitive reverse surge power dissipation | PRM              | tw=10μs, T <sub>j</sub> =25°C                  | 1000        | W    |
| Operating junction temperature                 | T <sub>j</sub>   |  | +150        | °C   |
| Storage temperature                            | T <sub>stg</sub> |  | -40 to +150 | °C   |

\* Out put current of center tap full wave connection

- Electrical characteristics (at Ta=25°C Unless otherwise specified )

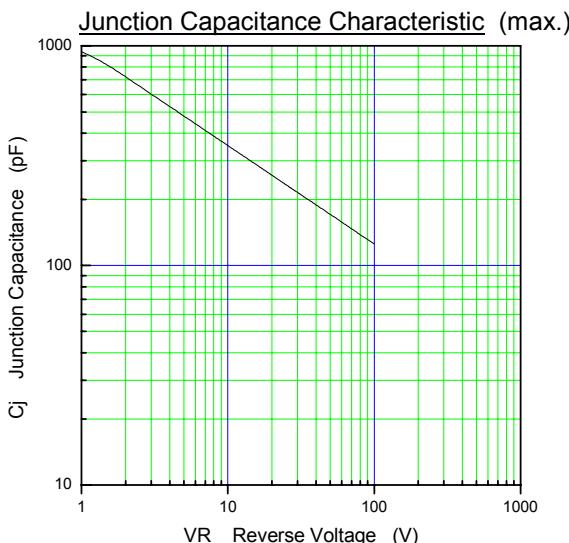
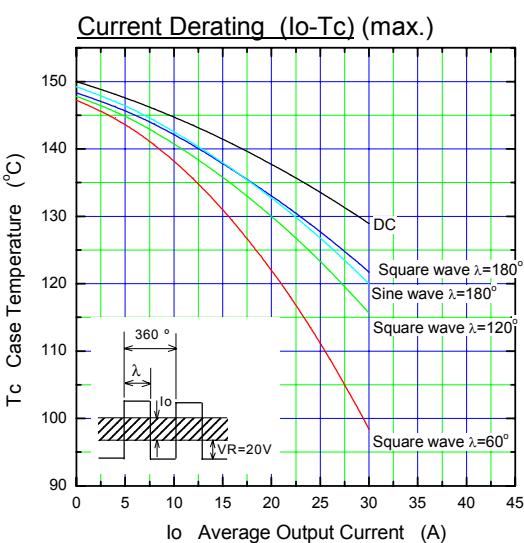
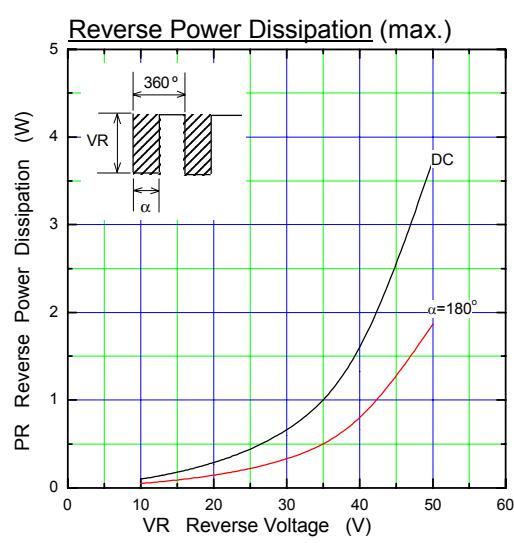
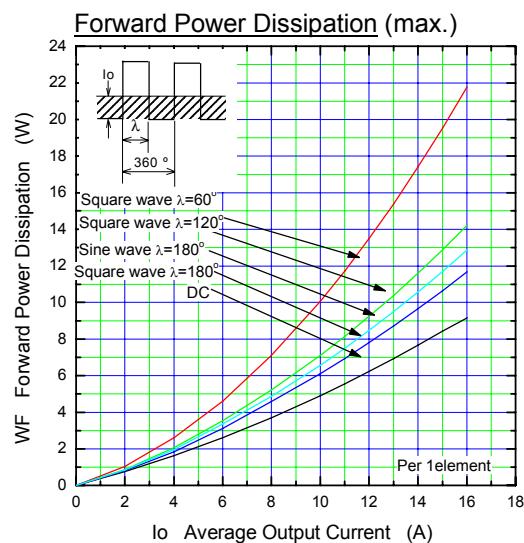
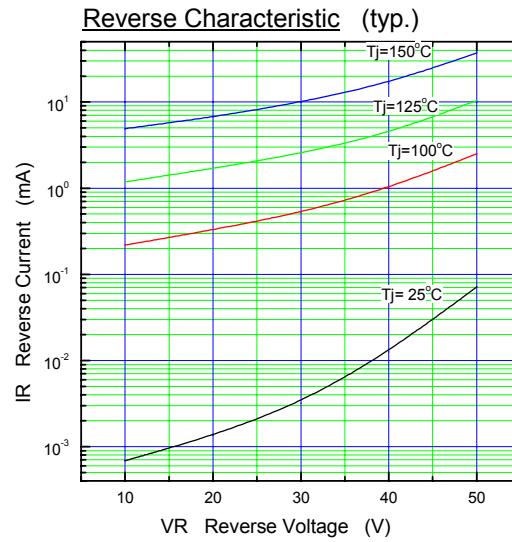
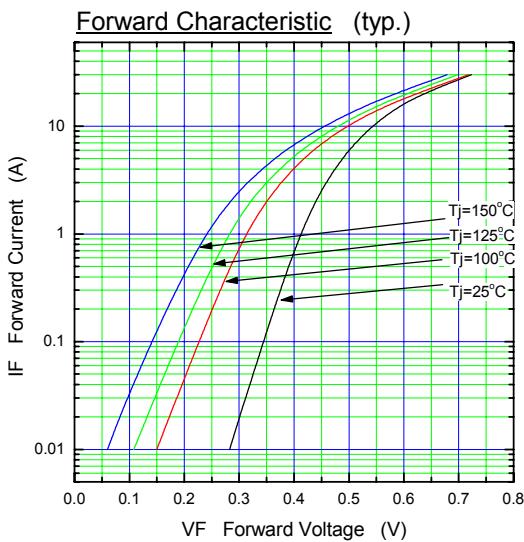
| Item               | Symbol               | Conditions          | Max. | Unit |
|--------------------|----------------------|---------------------|------|------|
| Forward voltage ** | V <sub>F</sub>       | I <sub>F</sub> =15A | 0.63 | V    |
| Reverse current ** | I <sub>R</sub>       | V <sub>R</sub> =40V | 200  | μA   |
| Thermal resistance | R <sub>th(j-c)</sub> | Junction to case    | 1.25 | °C/W |

\*\*Rating per element

- Mechanical characteristics

|                  |                    |            |     |
|------------------|--------------------|------------|-----|
| Mounting torque  | Recommended torque | 0.3 to 0.5 | N·m |
| Approximate mass |                    | 2          | g   |

## ■ Characteristics



$\lambda$ : Conduction angle of forward current for each rectifier element  
Io: Output current of center-tap full wave connection

