

Low IR Schottky barrier diode

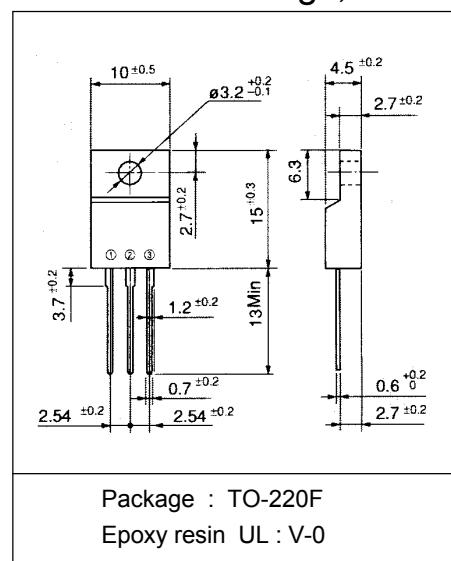
■ Features

- Low IR
- Low VF
- Center tap connection

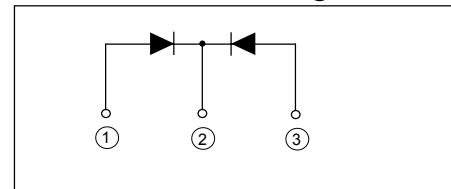
■ Applications

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

■ Outline drawings, mm



■ Connection diagram



■ Maximum ratings and characteristics

- Maximum ratings

| Item | Symbol | Conditions | Rating | Unit |
|--|------------------|--|-------------|------|
| Repetitive peak surge reverse voltage | V _{RSM} | tw=500ns, duty=1/40 | 45 | V |
| Repetitive peak reverse voltage | V _{RRM} | | 45 | V |
| Isolating voltage | V _{iso} | Terminals-to-Case, AC.1min. | 1500 | V |
| Average output current | I _O | Square wave, duty=1/2 T _c =115°C | 20 * | A |
| Non-repetitive surge current | I _{FSM} | Sine wave 10ms | 145 | A |
| non-repetitive reverse surge power dissipation | PRM | tw=10μs, T _j =25°C | 330 | W |
| Operating junction temperature | T _j | | +150 | °C |
| Storage temperature | T _{stg} | | -40 to +150 | °C |

* Out put current of center tap full wave connection

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

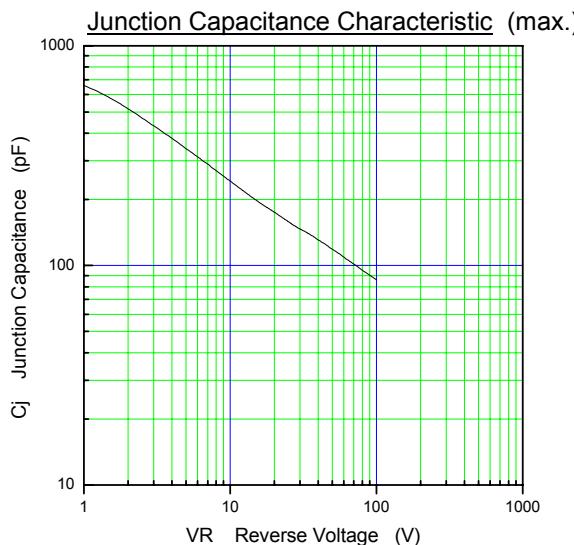
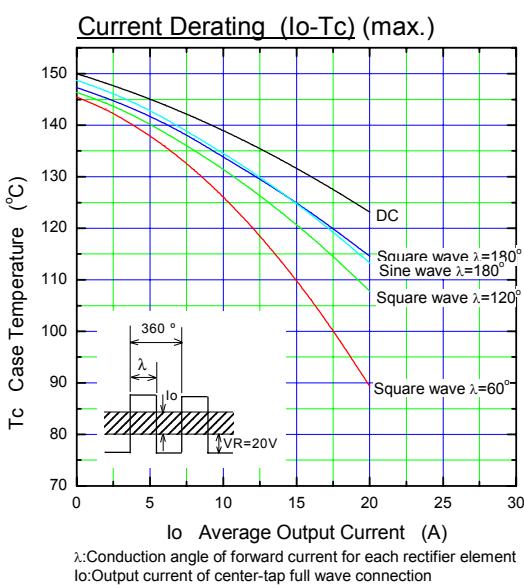
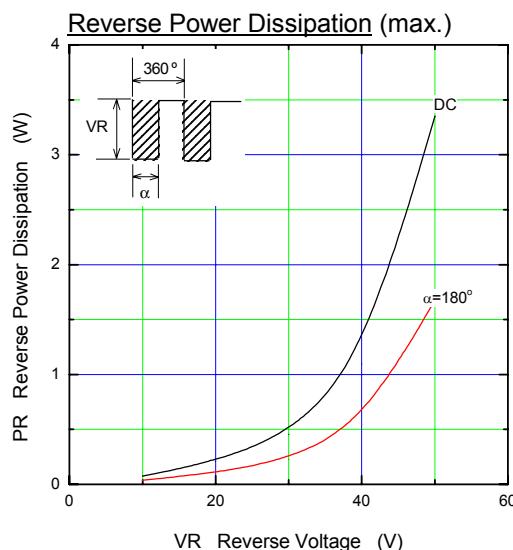
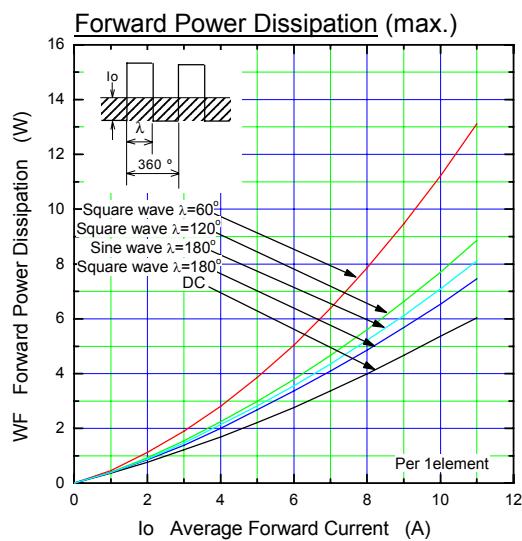
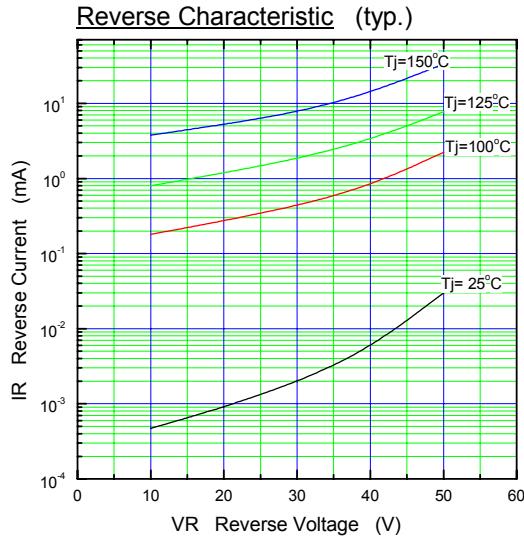
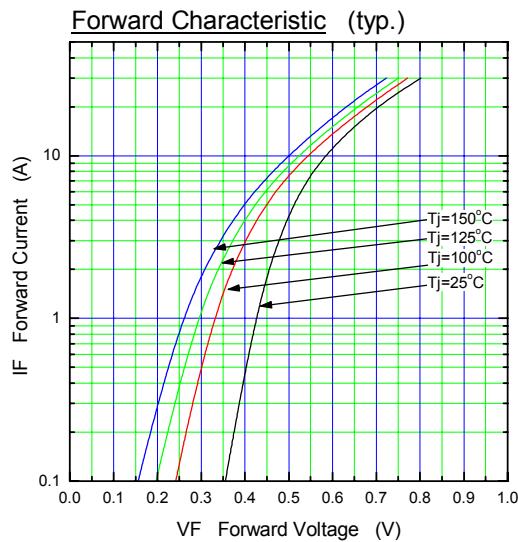
| Item | Symbol | Conditions | Max. | Unit |
|--------------------|----------------------|---------------------|------|------|
| Forward voltage ** | V _F | I _F =10A | 0.63 | V |
| Reverse current ** | I _R | V _R =40V | 175 | μA |
| Thermal resistance | R _{th(j-c)} | Junction to case | 2.5 | °C/W |

**Rating per element

- Mechanical characteristics

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

■ Characteristics



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

