

Low IR Schottky barrier diode

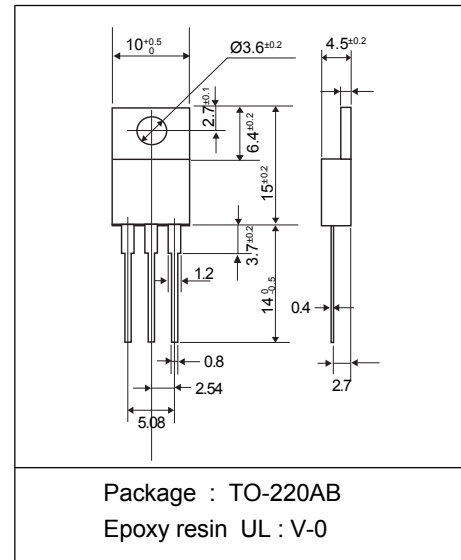
Features

- Low IR
- Low VF
- Center tap connection

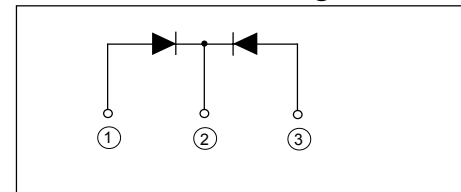
Applications

- 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} | $t_w=500ns$, duty=1/40 | 60 | V |
| Repetitive peak reverse voltage | V_{RRM} | | 60 | V |
| Isolating voltage | Viso | Terminals-to-Case, AC. 1min. | 1500 | V |
| Average output current | I_o | Square wave, duty=1/2 $T_c=122^\circ C$ | 20 * | A |
| Non-repetitive surge current | I_{FSM} | Sine wave 10ms | 145 | A |
| non-repetitive reverse surge power dissipation | PRM | $t_w=10\mu s$, $T_j=25^\circ C$ | 660 | W |
| Operating junction temperature | T_j | | +150 | $^\circ C$ |
| Storage temperature | T_{stg} | | -40 to +150 | $^\circ C$ |

* Out put current of center tap full wave connection

Electrical characteristics (at $T_a=25^\circ C$ Unless otherwise specified)

| Item | Symbol | Conditions | Max. | Unit |
|--------------------|---------------|------------------|------|--------------|
| Forward voltage ** | V_F | $I_F=10A$ | 0.74 | V |
| Reverse current ** | I_R | $V_R=60V$ | 175 | μA |
| Thermal resistance | $R_{th(j-c)}$ | Junction to case | 1.75 | $^\circ C/W$ |

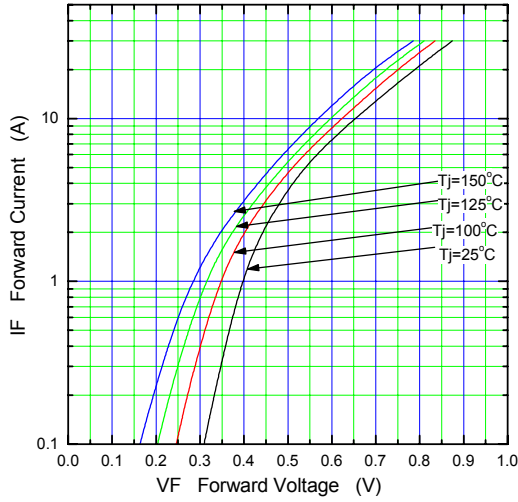
**Rating per element

Mechanical characteristics

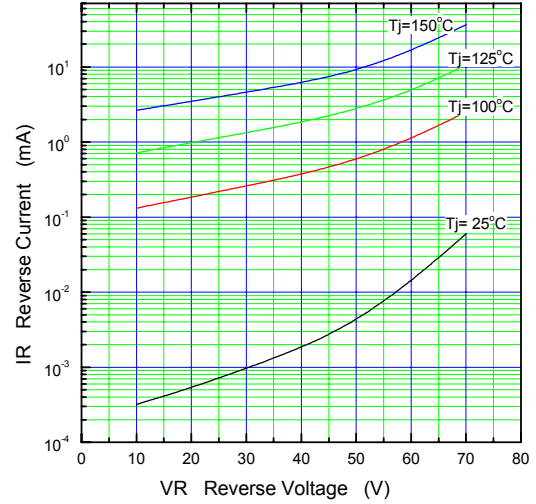
| | | | |
|------------------|--------------------|------------|-----|
| Mounting torque | Recommended torque | 0.3 to 0.5 | N·m |
| Approximate mass | | 2 | g |

■ Characteristics

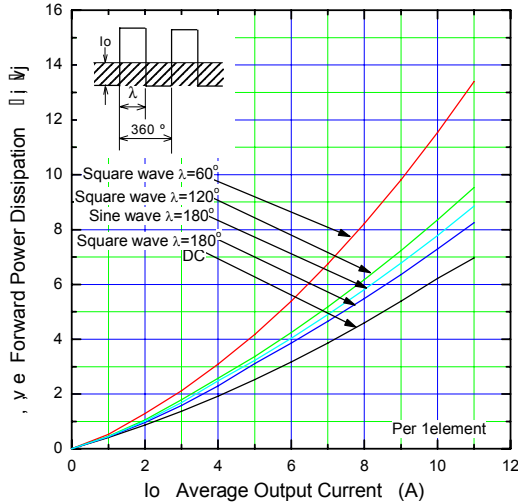
Forward Characteristic (typ.)



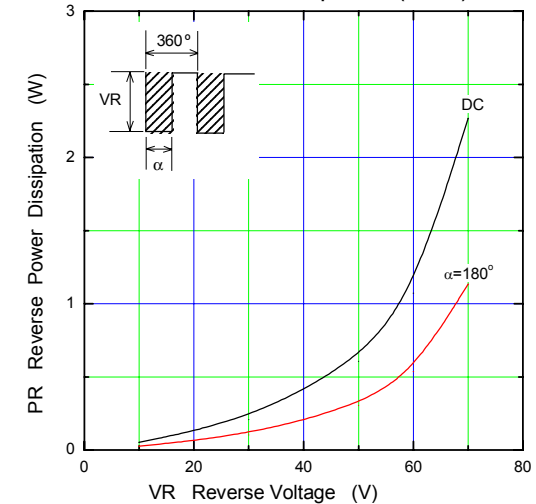
Reverse Characteristic (typ.)



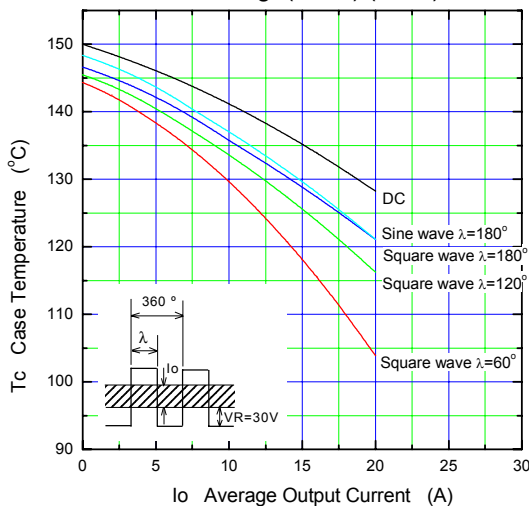
Forward Power Dissipation (max.)



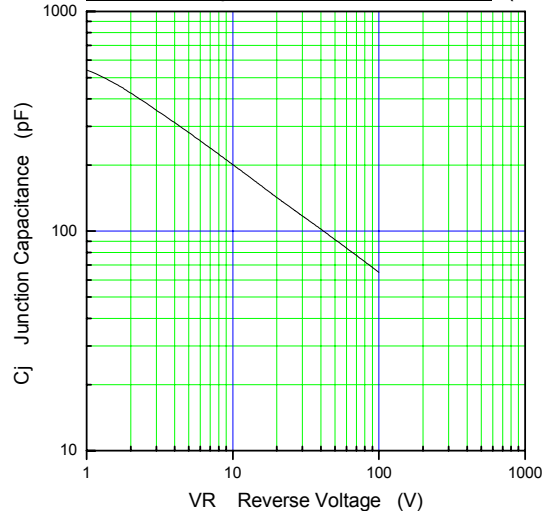
Reverse Power Dissipation (max.)



Current Derating (I_o-T_c) (max.)



Junction Capacitance Characteristic (max.)



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

