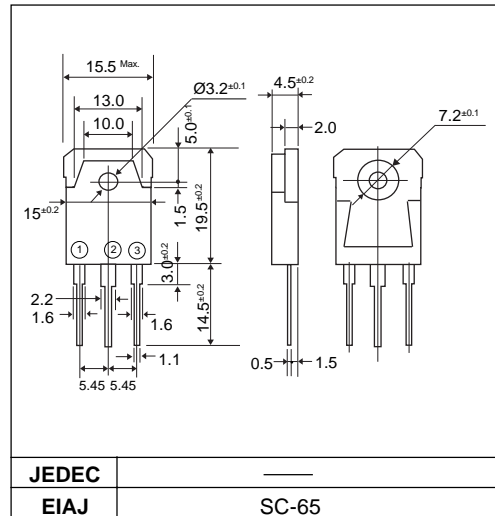


## LOW LOSS SUPER HIGH SPEED RECTIFIER

## Outline drawings, mm



## Features

- Low  $V_F$
- Super high speed switching
- High reliability by planer design

## Applications

- High speed power switching

## Maximum ratings and characteristics

- Absolute maximum ratings

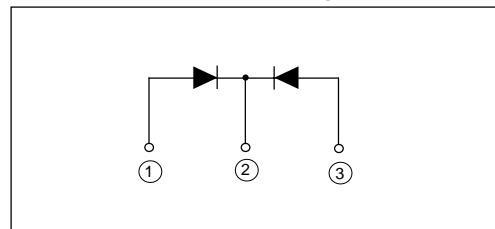
| Item                                | Symbol    | Conditions                                     | Rating      | Unit             |
|-------------------------------------|-----------|--|-------------|------------------|
| Repetitive peak reverse voltage     | $V_{RRM}$ |  | 600         | V                |
| Non-repetitive peak reverse voltage | $V_{RSM}$ |  | 600         | V                |
| Average output current              | $I_o$     | Square wave, duty=1/2, $T_c=100^\circ\text{C}$ | 20*         | A                |
| Surge current                       | $I_{FSM}$ | Sine wave 10ms                                 | 80          | A                |
| Operating junction temperature      | $T_j$     |  | -40 to +150 | $^\circ\text{C}$ |
| Storage temperature                 | $T_{stg}$ |  | -40 to +150 | $^\circ\text{C}$ |

\*Average forward current of centertap full wave connection

- Electrical characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified )

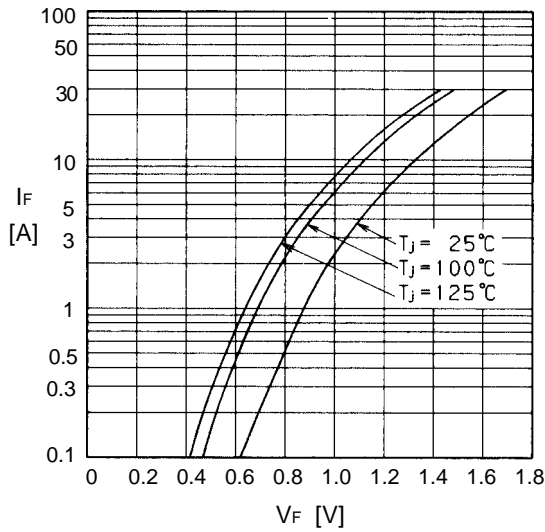
| Item                  | Symbol        | Conditions   | Max. | Unit               |
|-----------------------|---------------|--|------|--------------------|
| Forward voltage drop  | $V_{FM}$      | $I_{FM}=10\text{A}$  | 1.7  | V                  |
| Reverse current       | $I_{RRM}$     | $V_R=V_{RRM}$  | 500  | $\mu\text{A}$      |
| Reverse recovery time | $t_{rr}$      | $I_F=0.1\text{A}$ , $I_R=0.2\text{A}$ , $I_{rec}=0.05\text{A}$ | 50   | ns                 |
| Thermal resistance    | $R_{th(j-c)}$ | Junction to case   | 1.2* | $^\circ\text{C/W}$ |

## Connection diagram

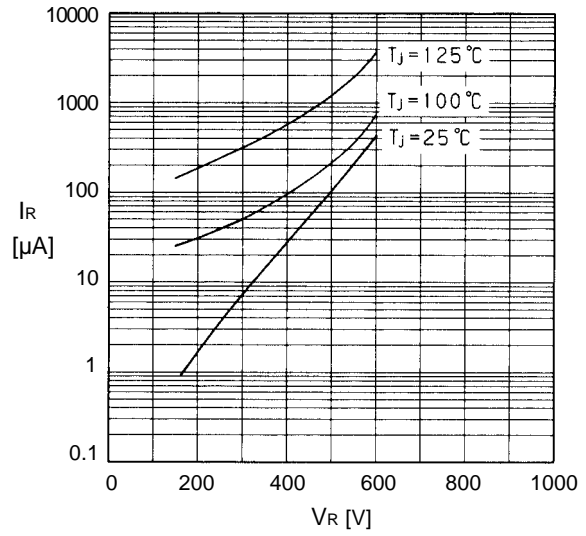


■ Characteristics

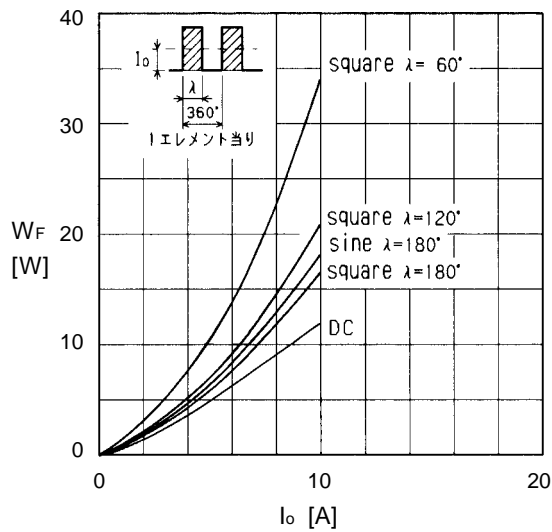
Forward characteristics



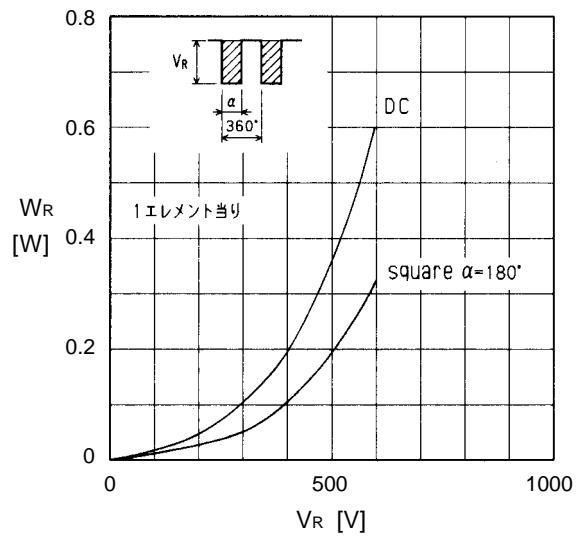
Reverse characteristics



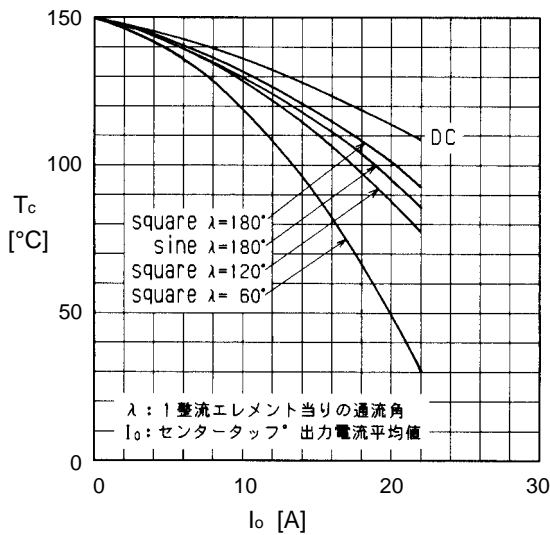
Forward power dissipation



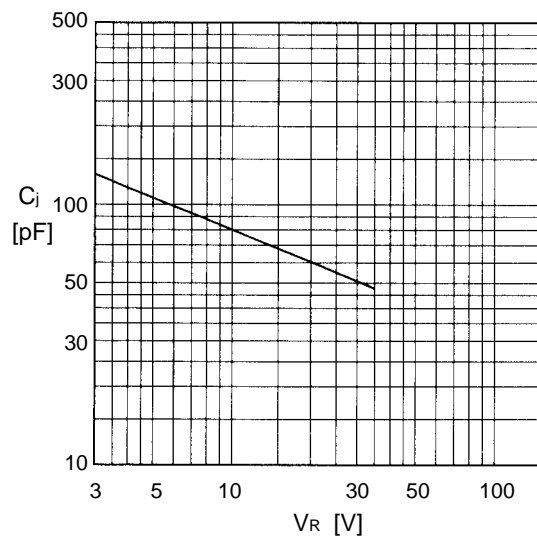
Output current-case temperature



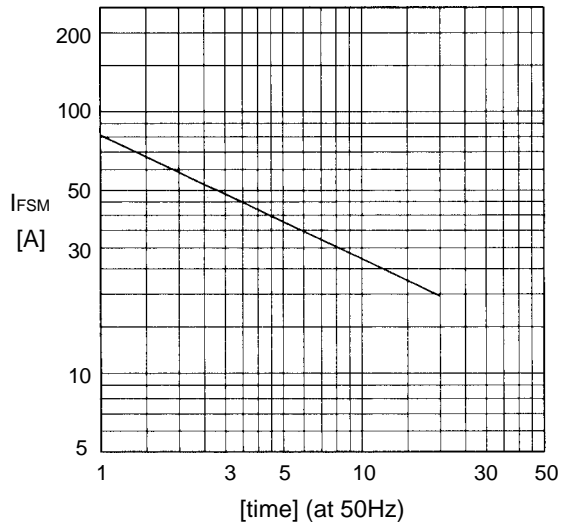
Output current-case temperature



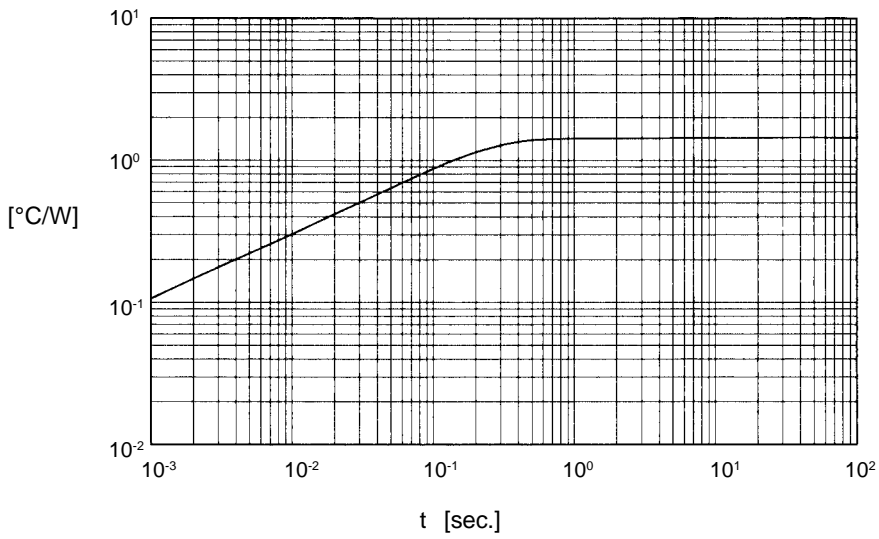
Junction capacitance characteristics



Surge capability



Transient thermal impedance



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Datasheets for electronics components.