

## LOW LOSS SUPER HIGH SPEED RECTIFIER

### Features

- Surface-mount device
- Low VF
- Super high speed switching
- High reliability by planer design

### Applications

- High speed power switching

### Maximum ratings and characteristics

- Absolute maximum ratings

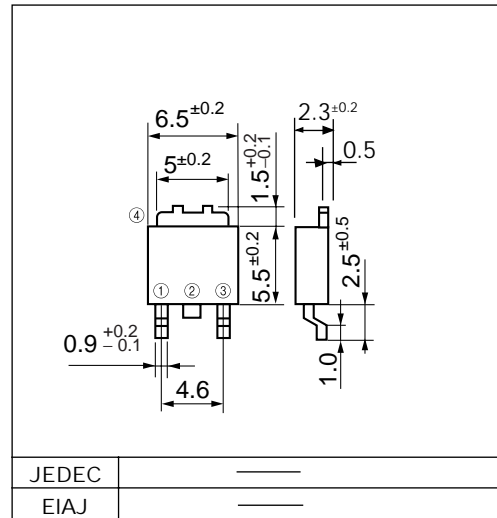
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Non-repetitive peak reverse voltage	$V_{RSM}$	$t=500ns, duty=1/40$	200	V
Average output current	$I_o$	Square wave, $duty=1/2, T_c=103^{\circ}C$	5*	A
Surge current	$I_{FSM}$	Sine wave 10ms	50	A
Operating junction temperature	$T_j$		-40 to +150	$^{\circ}C$
Storage temperature	$T_{stg}$		-40 to +150	$^{\circ}C$

\* Average forward current of centertap full wave connection

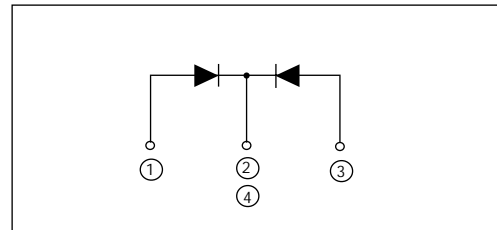
- Electrical characteristics ( $T_a=25^{\circ}C$  Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=2.5A$	0.95	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.1A, I_R=0.2A$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	10*	$^{\circ}C/W$

### Outline drawings, mm

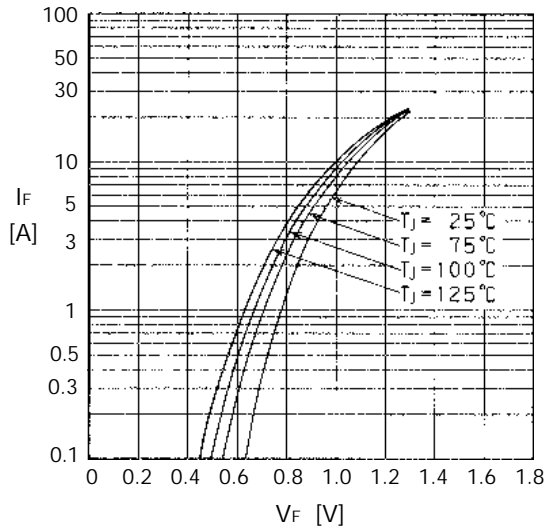


### Connection diagram

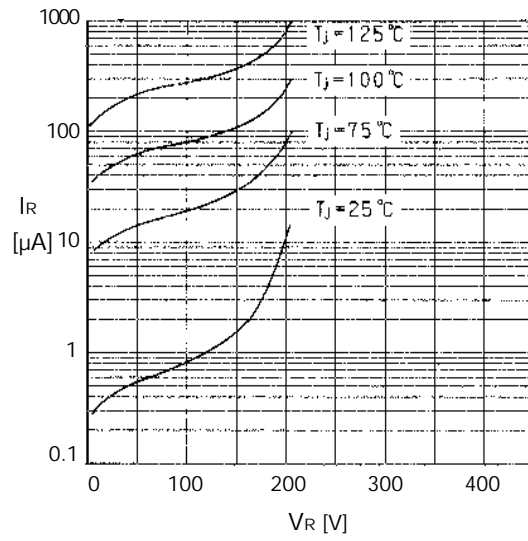


Characteristics

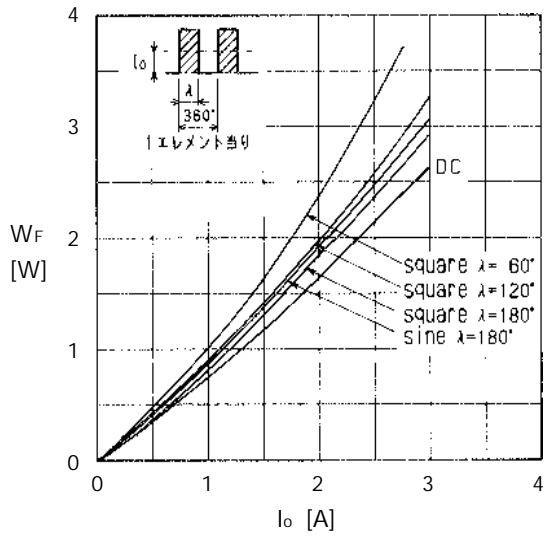
Forward characteristics



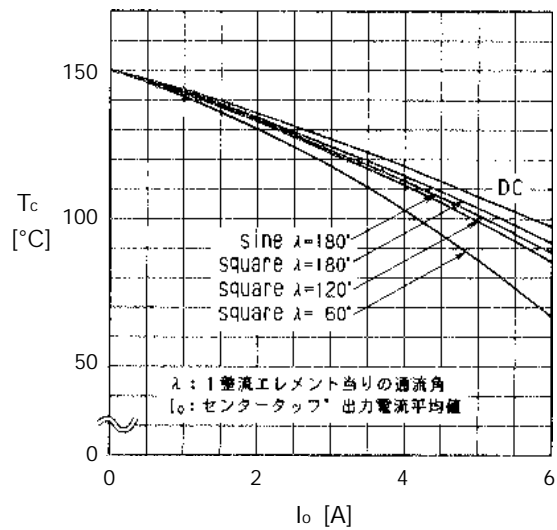
Reverse characteristics



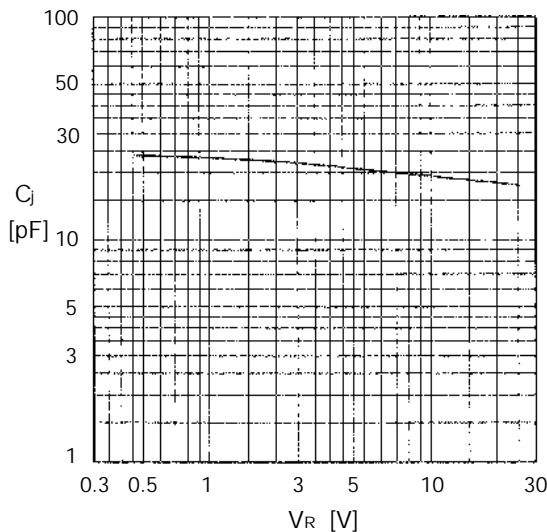
Forward power dissipation



Output current-case temperature



Junction capacitance characteristics



Surge capability

