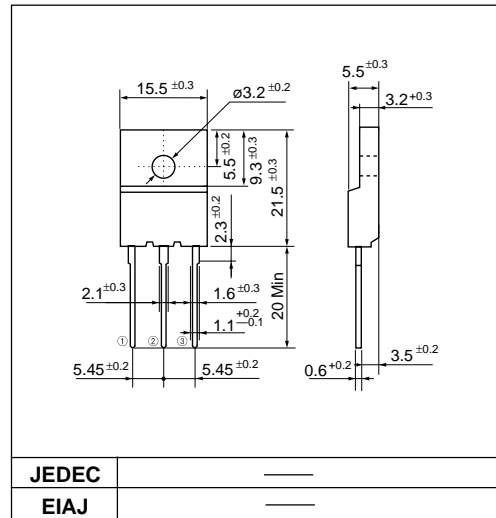


## LOW LOSS SUPER HIGH SPEED RECTIFIER

## Outline drawings, mm



## Features

- Insulated package by fully molding
- Low VF
- Super high speed switching
- High reliability by planer design

## Applications

- High speed power switching

## Maximum ratings and characteristics

- Absolute maximum ratings

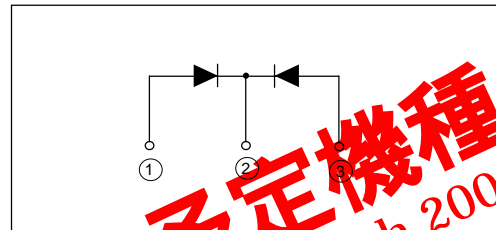
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		300	V
Non-repetitive peak reverse voltage	$V_{RSM}$		300	V
Isolating voltage	$I_{iso}$	Terminals to case, AC, 1 min.	1500	V
Average output current	$I_o$	Square wave, duty=1/2, $T_c=104^{\circ}C$	12*	A
Surge current	$I_{FSM}$	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	$V_{FM}$	$I_{FM}=6.0A$	1.2	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.1A, I_R=0.2A, I_{rec}=0.05A$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.7*	$^{\circ}C/W$

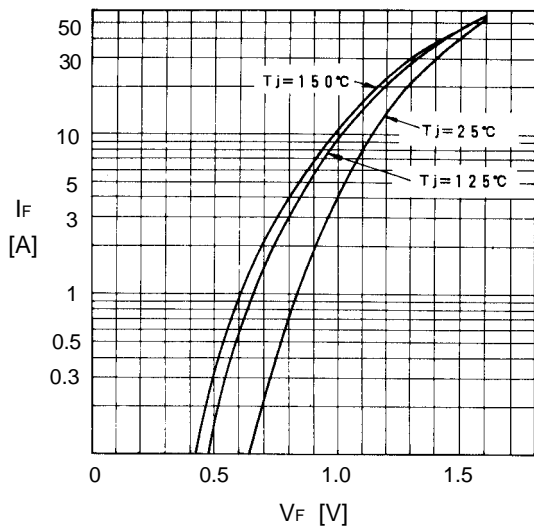
## Connection diagram



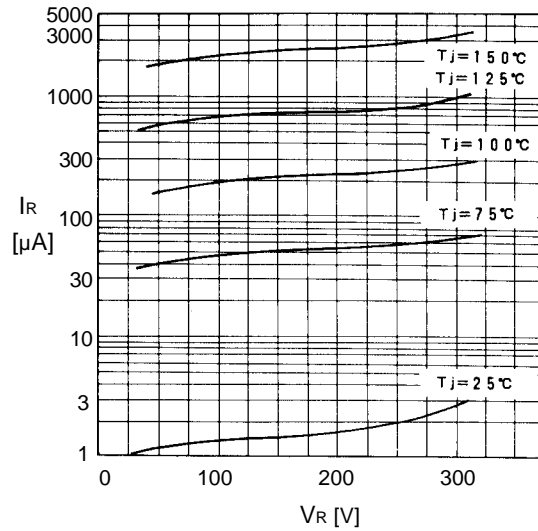
2007年3月 保守廃止予定機種  
 This product is scheduled to be obsolete on march 2007.  
 Not recommend for new design.

■ Characteristics

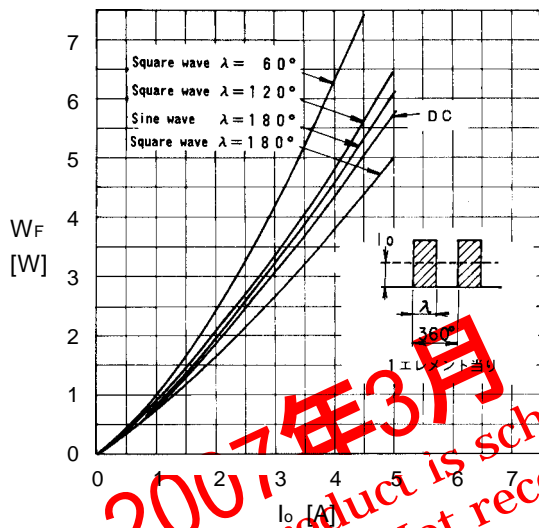
Forward characteristics



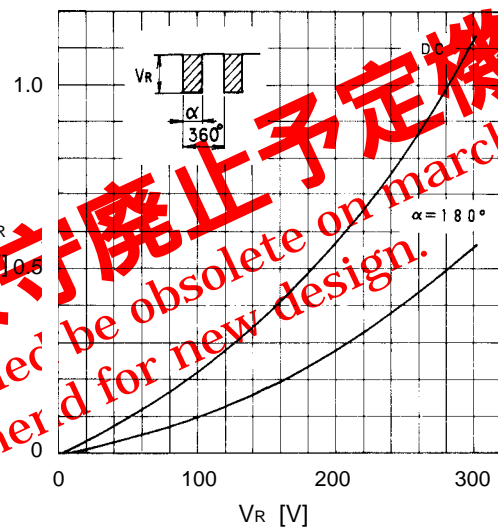
Reverse characteristics



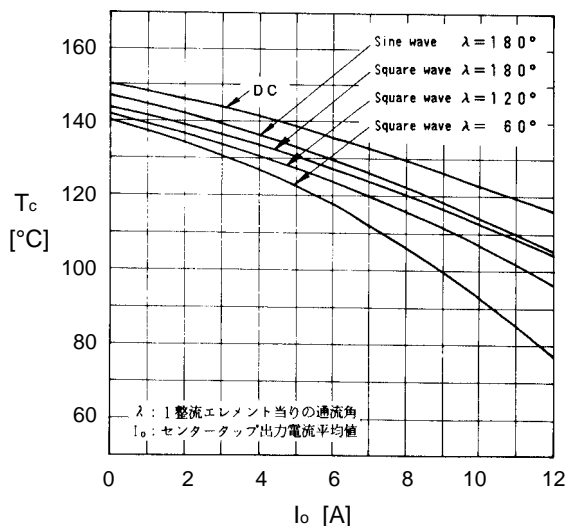
Forward power dissipation



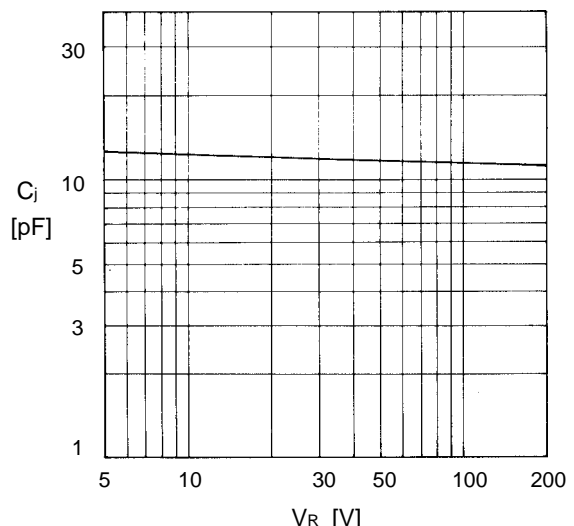
Forward power dissipation



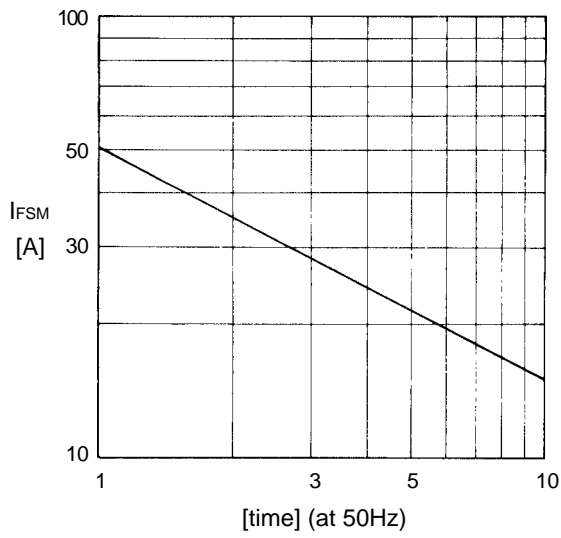
Output current-case temperature



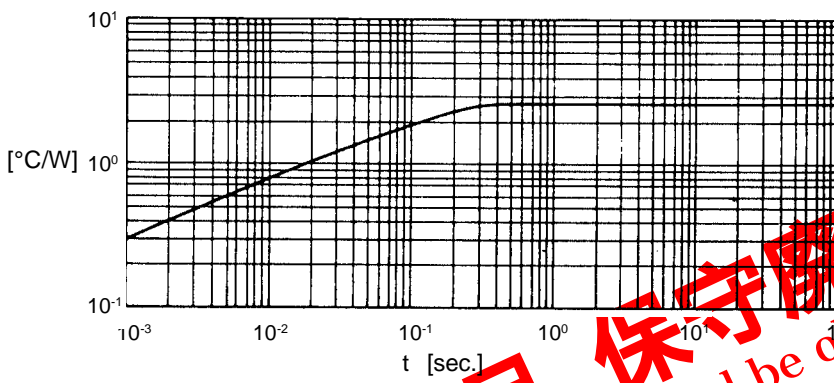
Junction capacitance characteristics



Surge capability



Transient thermal impedance



**2007年3月 保守廃止予定機種**  
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