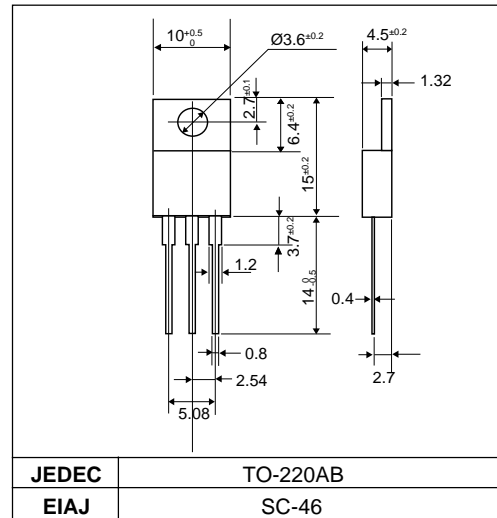


## LOW LOSS SUPER HIGH SPEED RECTIFIER

### 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

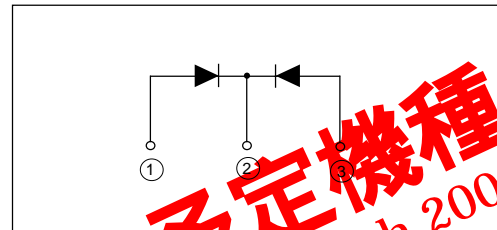
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average output current	$I_o$	Square wave, duty=1/2, $T_c=120^\circ\text{C}$	5*	A
Surge current	$I_{FSM}$	Sine wave, 10ms	25	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-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	$V_{FM}$	$I_{FM}=2.5\text{A}$	0.95	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.2\text{A}$ , $I_{rec}=0.05\text{A}$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0*	$^\circ\text{C/W}$

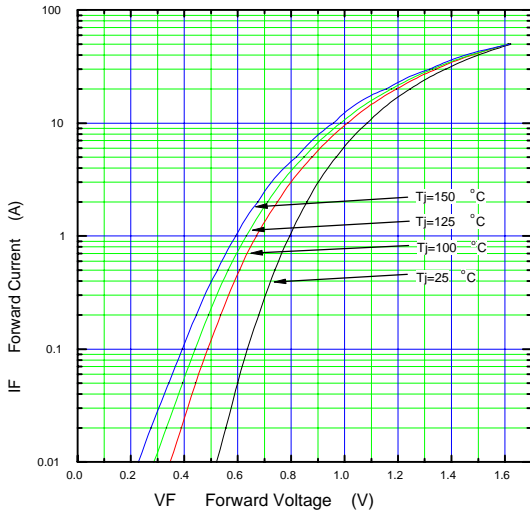
### Connection diagram



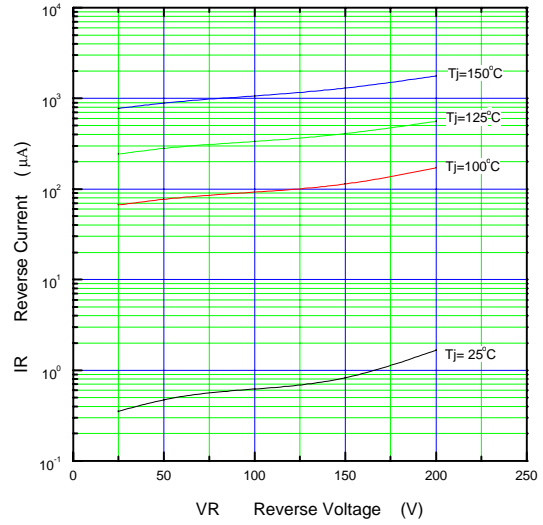
2007年3月保守廃止予定機種  
 This product is scheduled to be obsolete on march 2007.  
 Not recommend for new design.

Characteristics

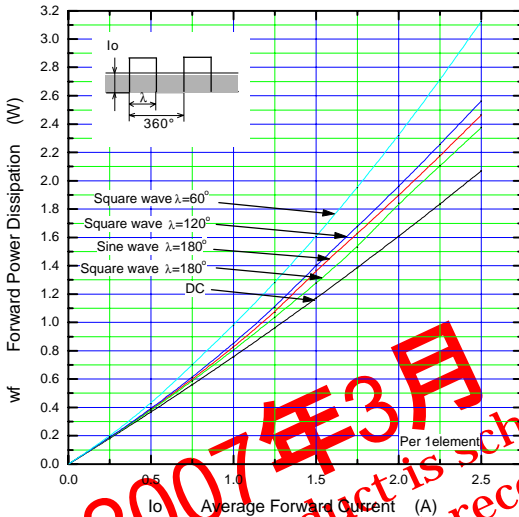
Forward Characteristic (typ.)



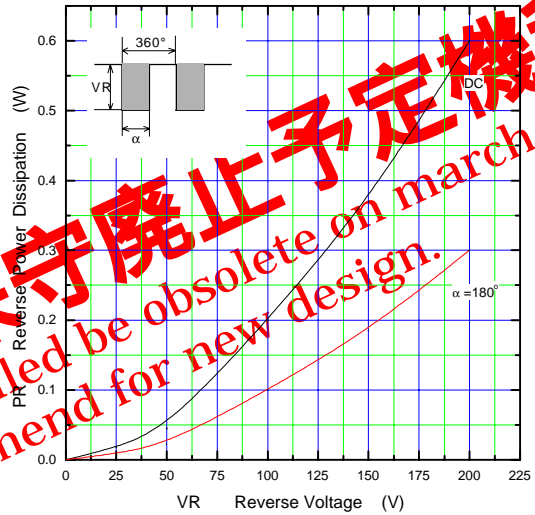
Reverse Characteristic (typ.)



Forward Power Dissipation

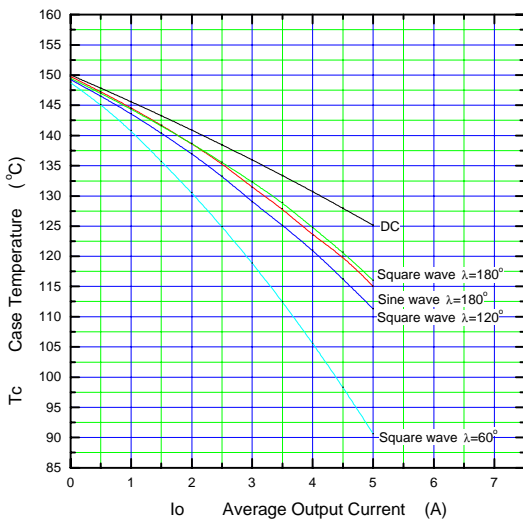


Reverse Power Dissipation

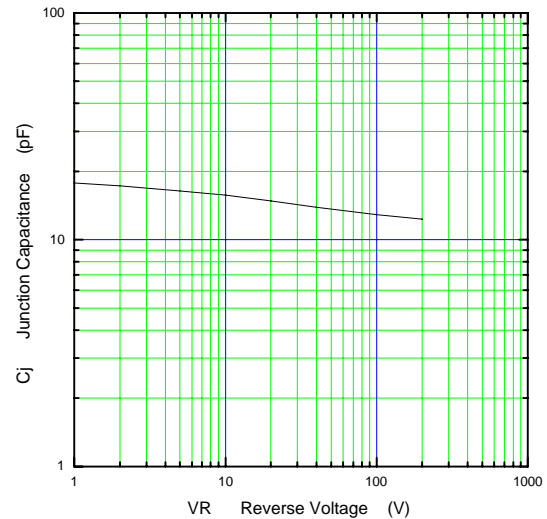


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 This product is scheduled to be obsolete on march 2007.  
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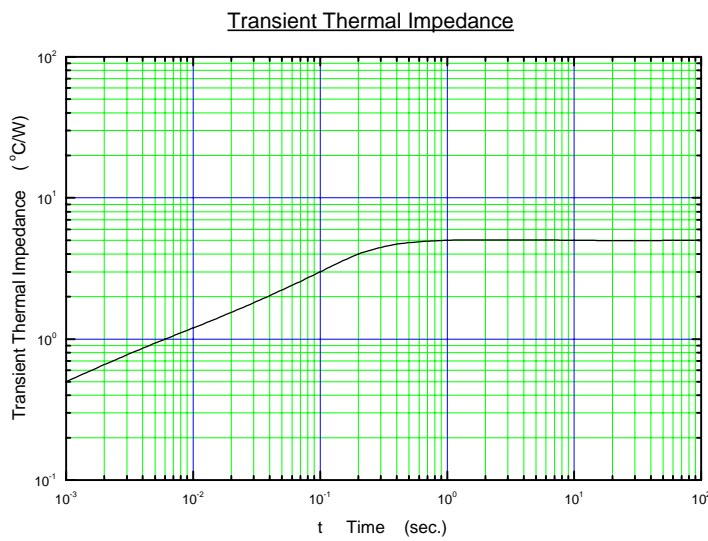
Current Derating ( $I_o$ - $T_c$ )



Junction Capacitance Characteristic (typ.)



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



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