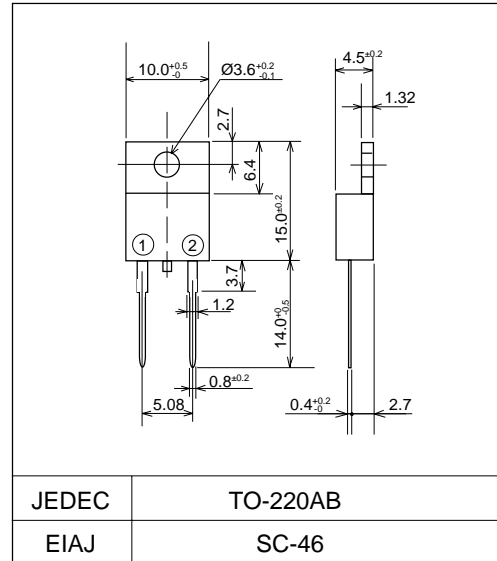


# ERC80-004 (5A)

(40V / 5A)

## SCHOTTKY BARRIER DIODE

### Outline drawings, mm



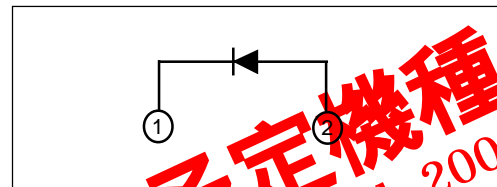
### Features

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

### Applications

- High speed power switching

### Connection diagram



### Maximum ratings and characteristics

- Absolute maximum ratings

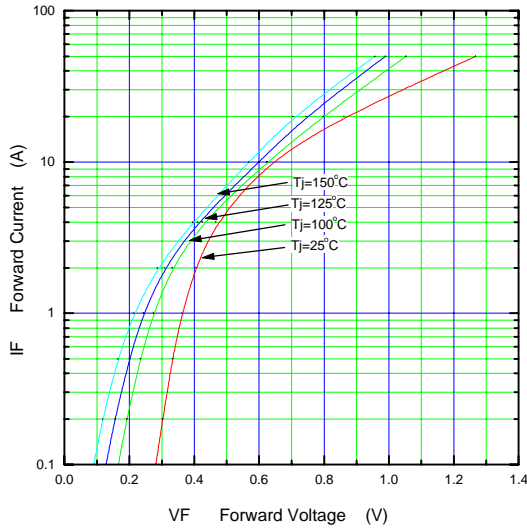
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Non-repetitive peak reverse voltage	$V_{RSM}$	$t_w=500\mu s$ , duty=1/40	48	V
Average output current	$I_o$	Square wave, duty=1/2 $T_c=122^\circ C$	5.0	A
Surge current	$I_{FSM}$	Sine wave 10ms	120	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ C$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ C$

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

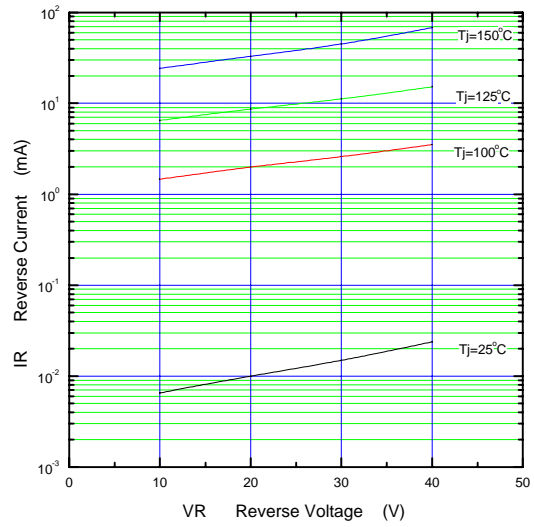
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=5.0A$	0.55	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	$^\circ C/W$

Characteristics

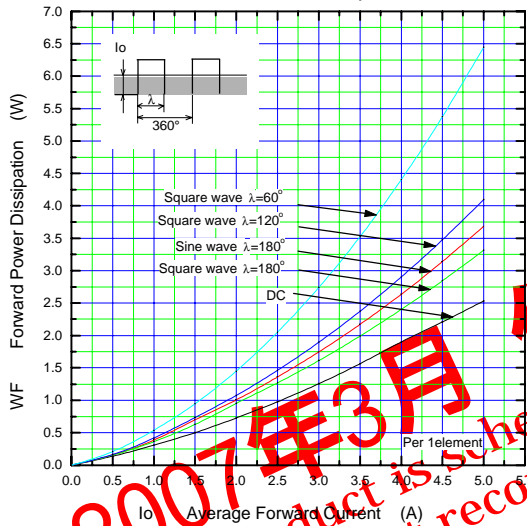
Forward Characteristic (typ.)



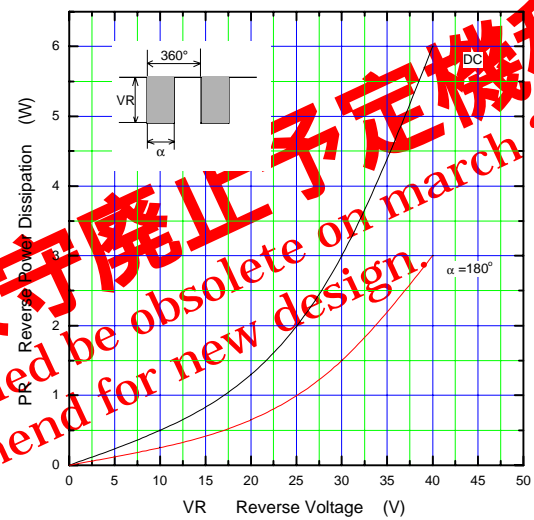
Reverse Characteristic (typ.)



Forward Power Dissipation

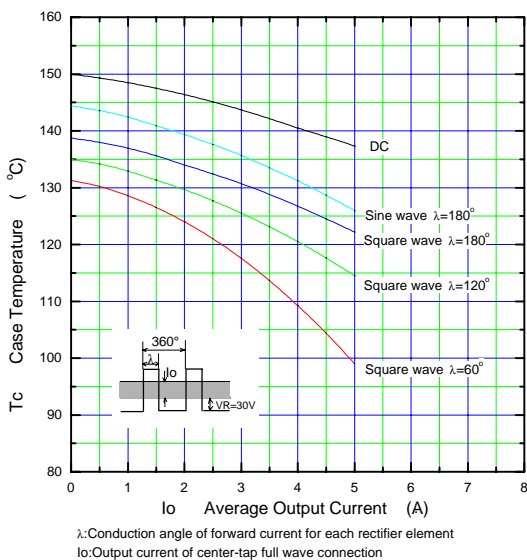


Reverse Power Dissipation

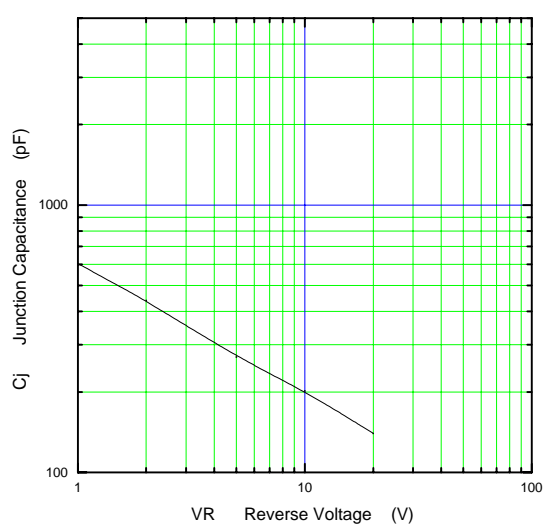


2007年3月 保守廃止予定機種  
This product is scheduled to be obsolete on march 2007.  
Not recommend for new design.

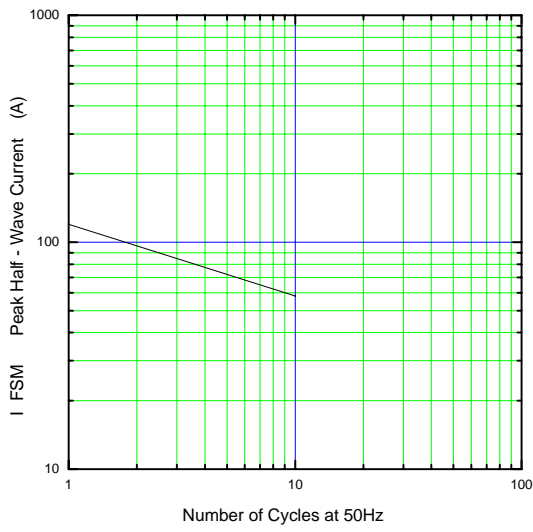
Current Derating (I<sub>o</sub>-T<sub>c</sub>)



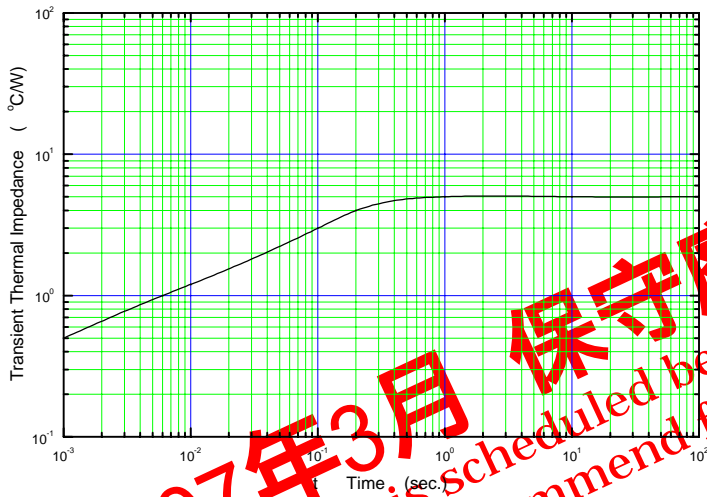
Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance



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.