

ESAB82-004 (5A)

(40V / 5A)

SCHOTTKY BARRIER DIODE

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

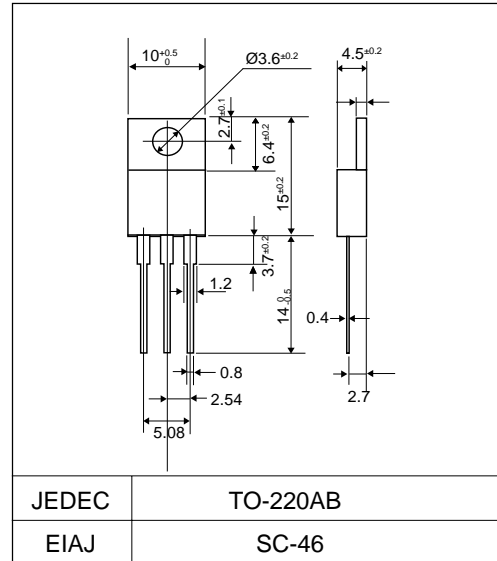
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500\mu s$, duty=1/40	48	V
Average output current	I_o	Square wave, duty=1/2 $T_c=126^\circ C$	5.0*	A
Surge current	I_{FSM}	Sine wave 10ms	100	A
Operating junction temperature	T_j		-40 to +150	$^\circ C$
Storage temperature	T_{stg}		-40 to +150	$^\circ C$

* Average forward current of centertap full wave connection

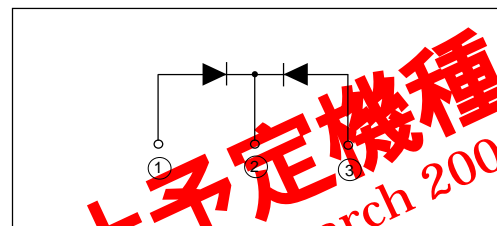
- Electrical characteristics ($T_a=25^\circ C$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.0A$	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	$^\circ C/W$

Outline drawings, mm



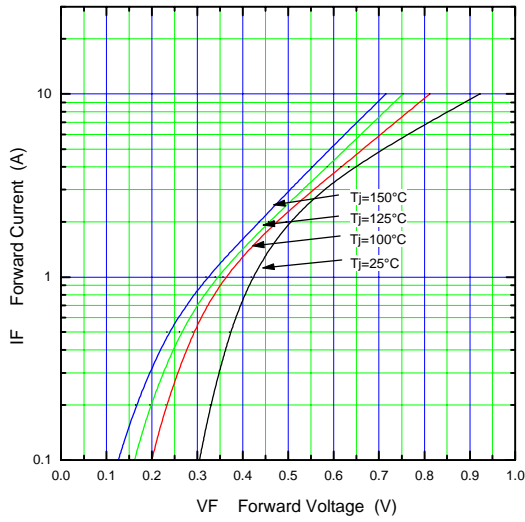
Connection diagram



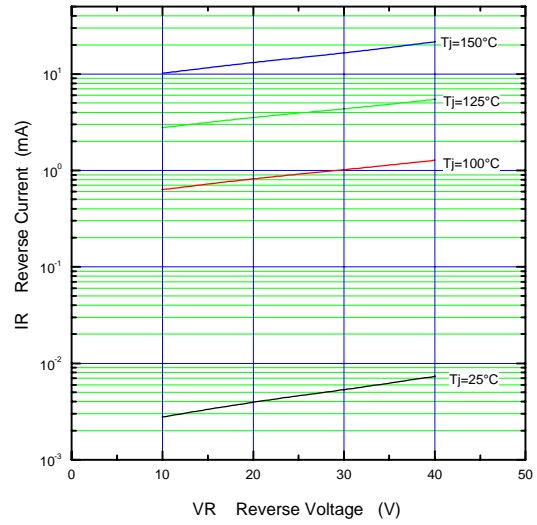
2007年3月 保守廃止予定機種
 This product is scheduled to be obsolete on march 2007.
 Not recommend for new design.

■ Characteristics

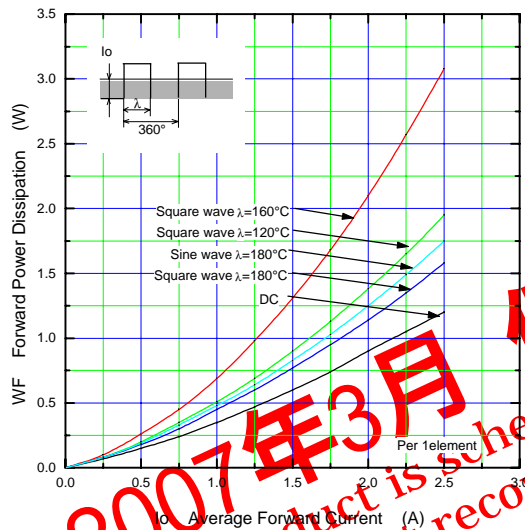
Forward Characteristic (typ.)



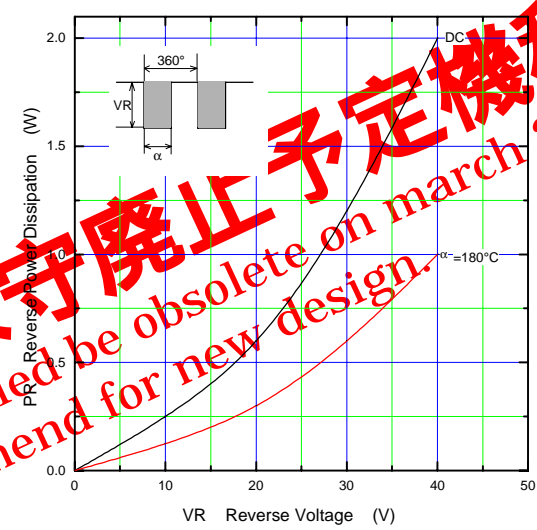
Reverse Characteristic (typ.)



Forward Power Dissipation

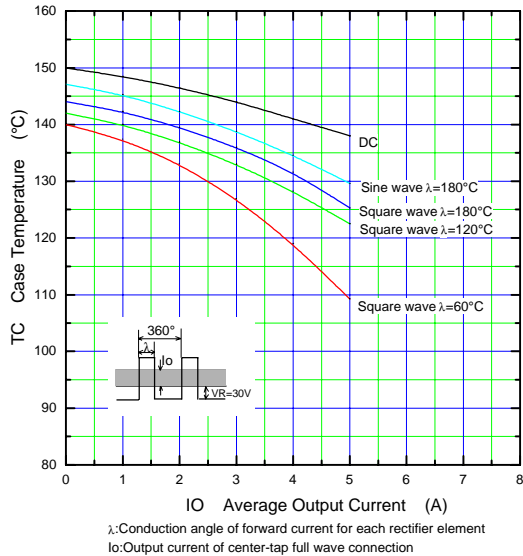


Reverse Power Dissipation

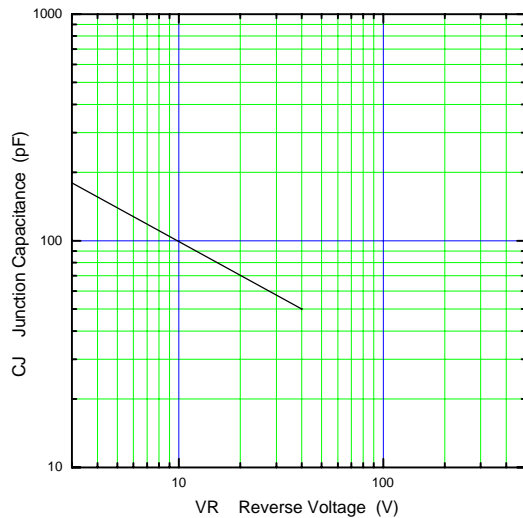


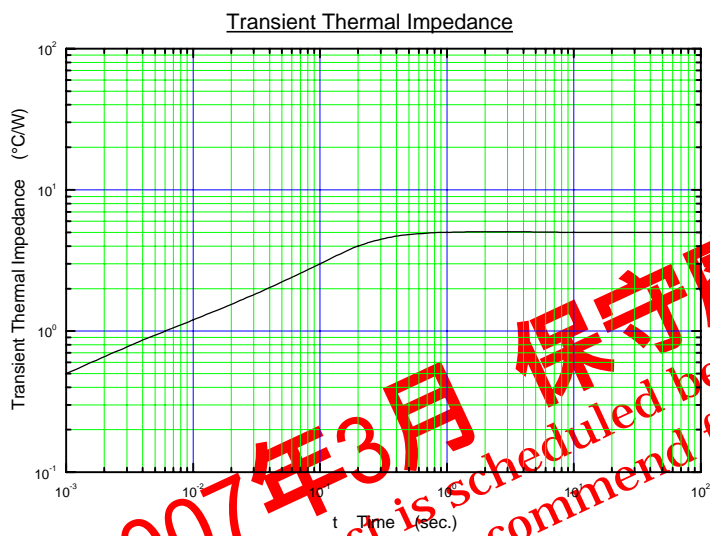
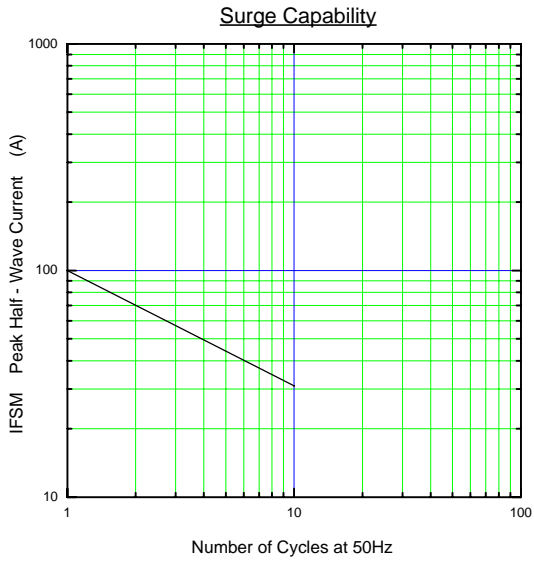
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Current Derating (I_o-T_c)



Junction Capacitance Characteristic (typ.)





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