

ESAC82-006 (10A)

(60V / 10A)

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

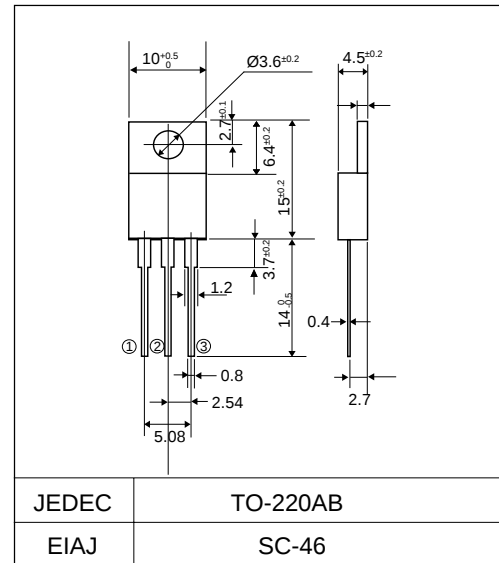
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		60	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500ns$, duty=1/40	60	V
Average output current	I_o	Square wave, duty=1/2 $T_c=123^{\circ}C$	10*	A
Surge current	I_{FSM}	Sine wave 10ms	80	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

* Average forward current of centertap full wave connection

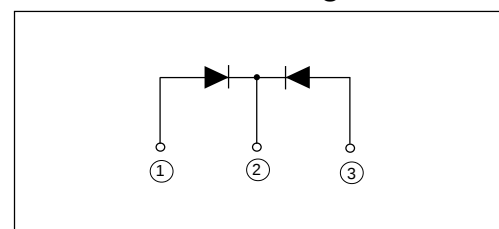
- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

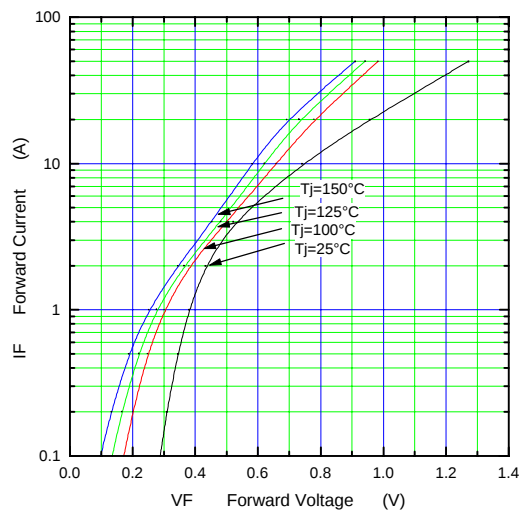
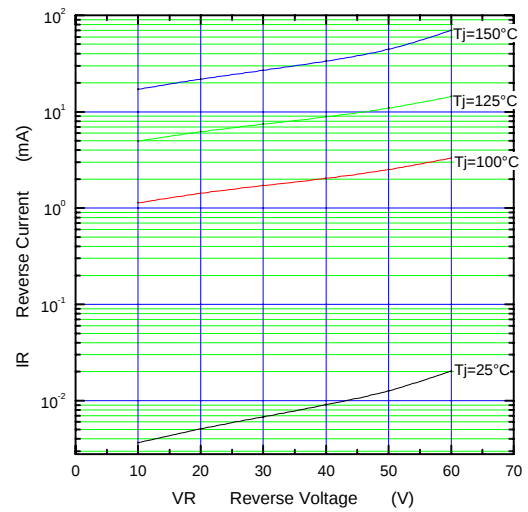
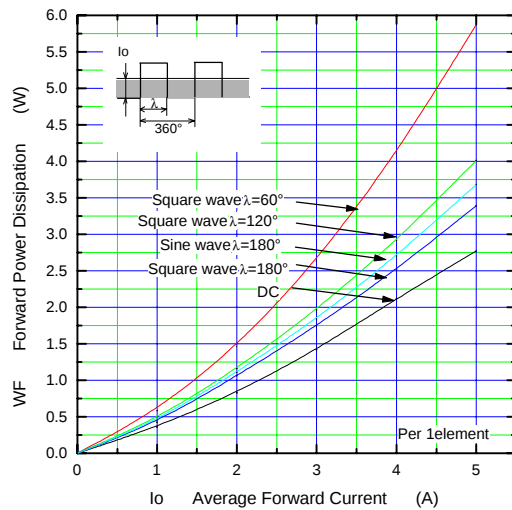
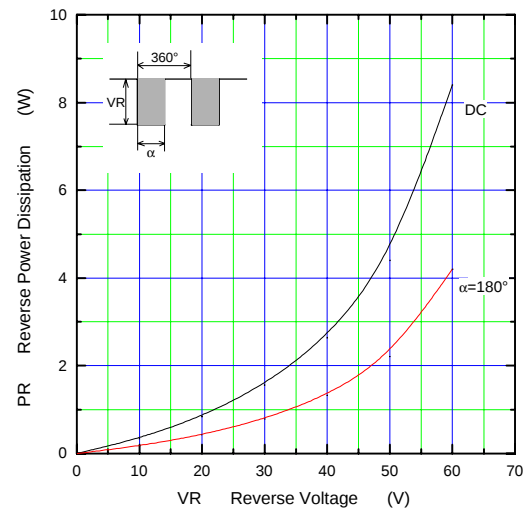
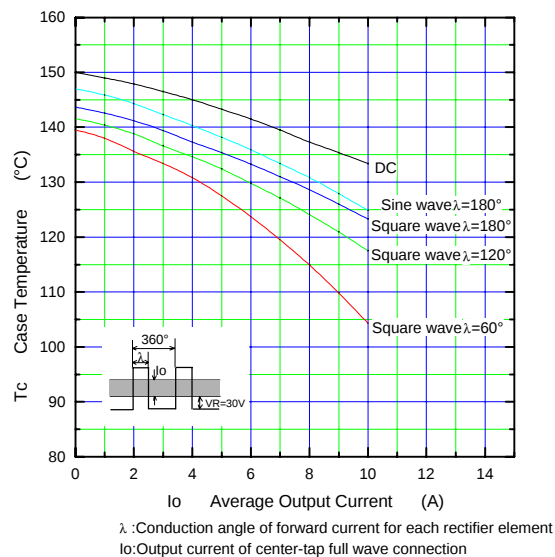
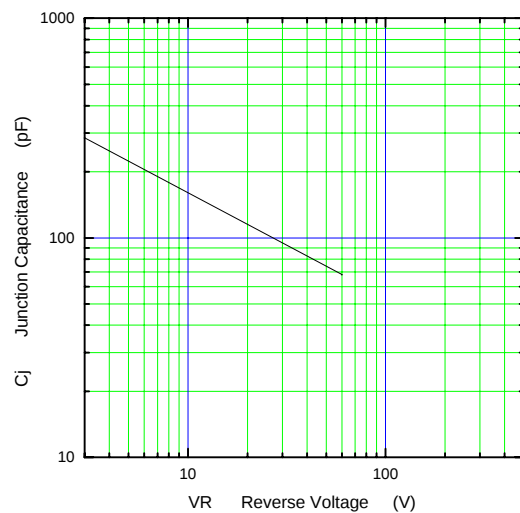
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=4.0A$	0.58	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	5	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.0	$^{\circ}C/W$

Outline drawings, mm

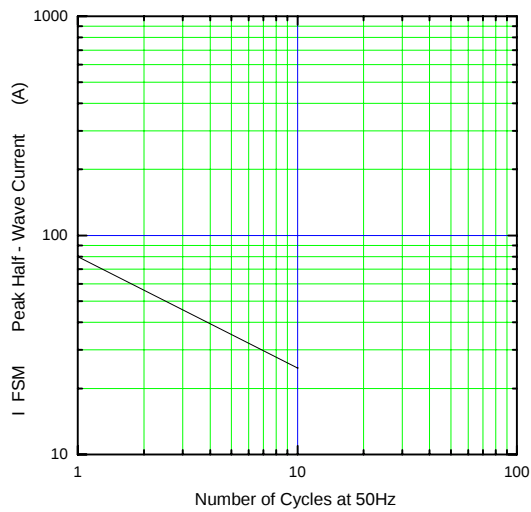


Connection diagram



■ Characteristics**Forward Characteristic (typ.)****Reverse Characteristic (typ.)****Forward Power Dissipation****Reverse Power Dissipation****Current Derating (I_o - T_c)****Junction Capacitance Characteristic (typ.)**

Surge Capability



Transient Thermal Impedance

