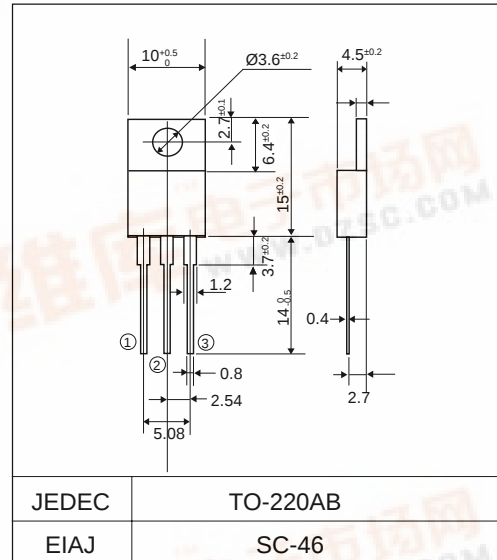


ESAC63-006 (20A)

(60V / 20A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



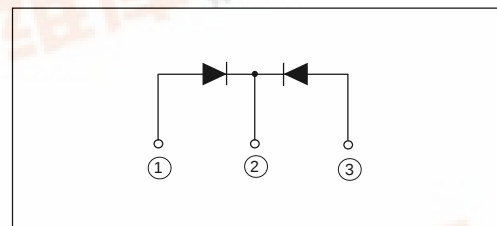
■ Features

- 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}		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 $T_c=118^{\circ}C$	20*	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	$^{\circ}C$

* Average forward current of centertap full wave connection

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

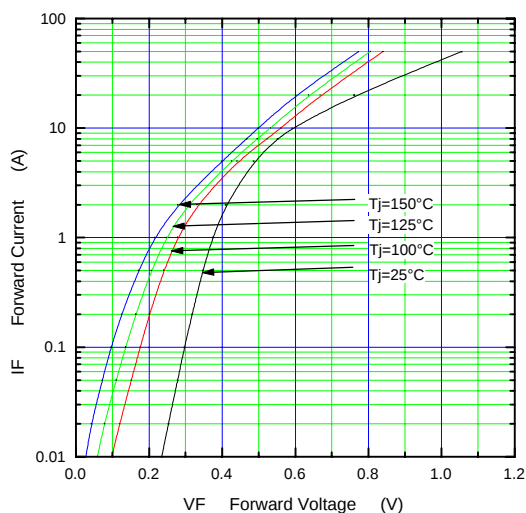
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=8.0A$	0.58	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	15	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^{\circ}C/W$

(60V / 20A)

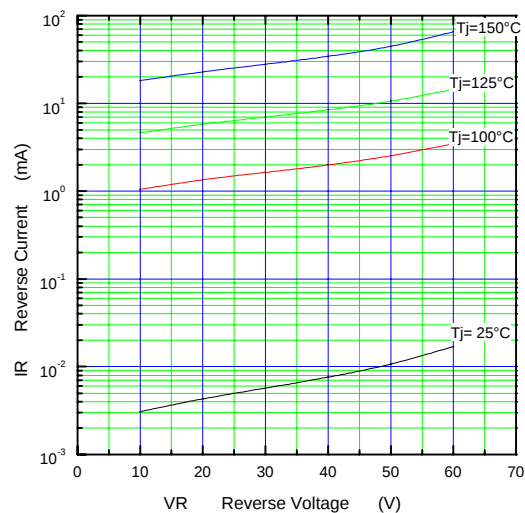
ESAC63-006 (20A)

Characteristics

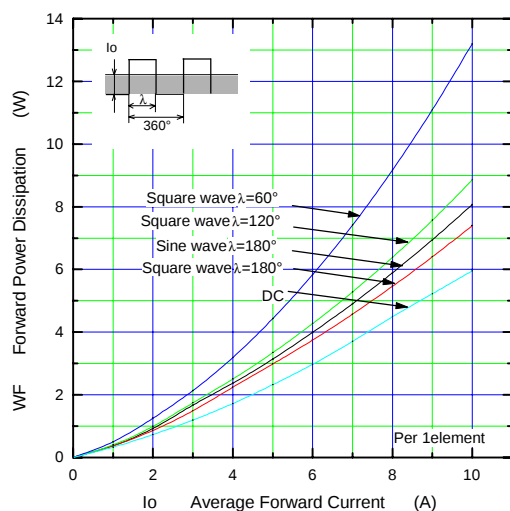
Forward Characteristic (typ.)



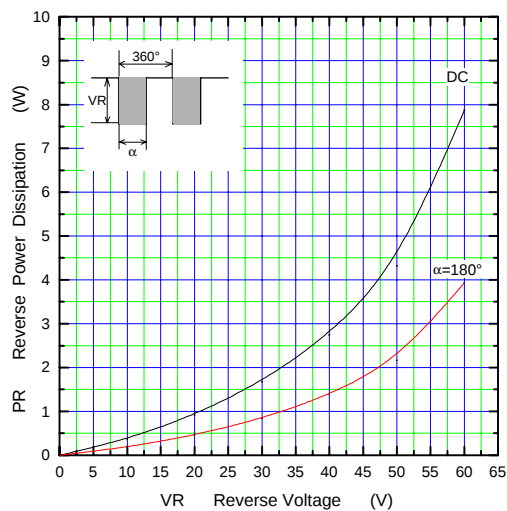
Reverse Characteristic (typ.)



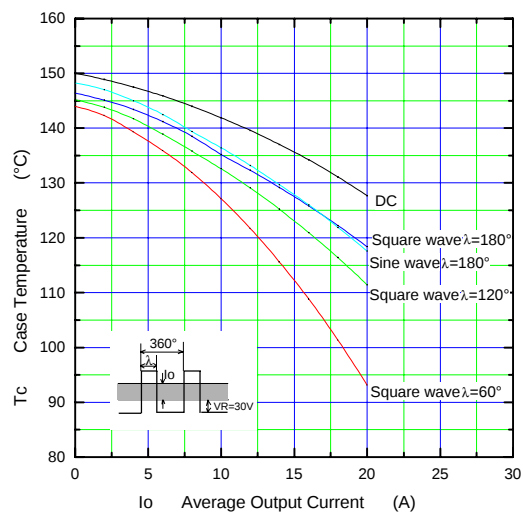
Forward Power Dissipation



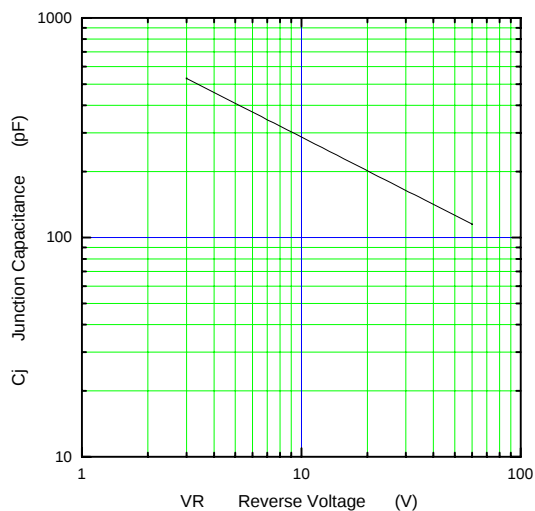
Reverse Power Dissipation



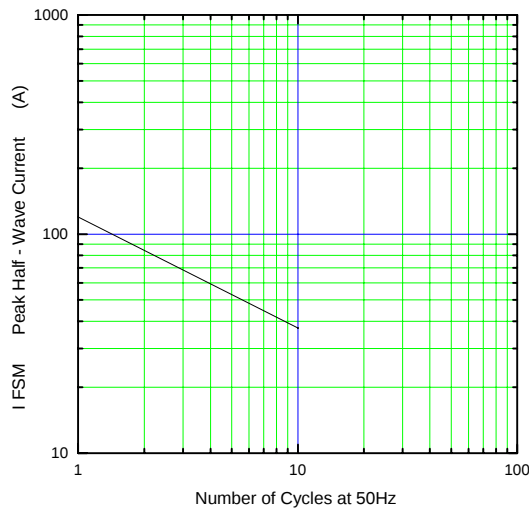
Current Derating (I_o - T_c)



Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance

