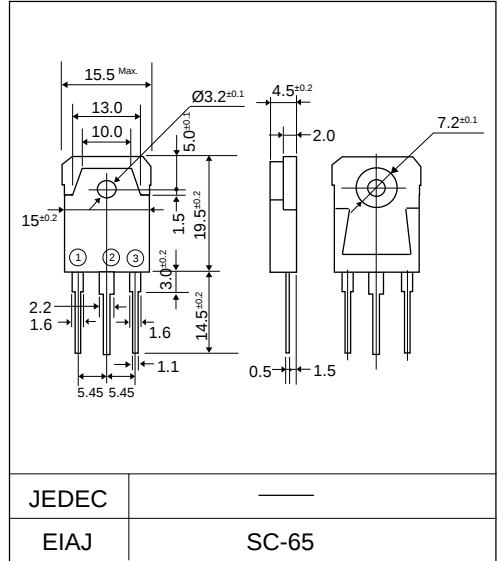


ESAE83-004 (60A)

(40V / 60A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



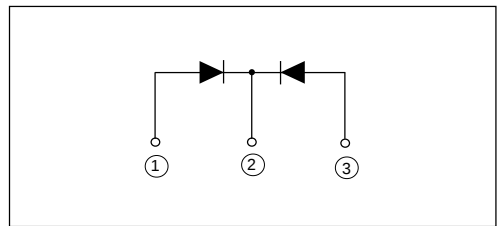
■ Features

- Low VF
- Super high speed switching
- High reliability by planer design

■ Applications

- High speed power switching

■ Connection diagram



■ Maximum ratings and characteristics

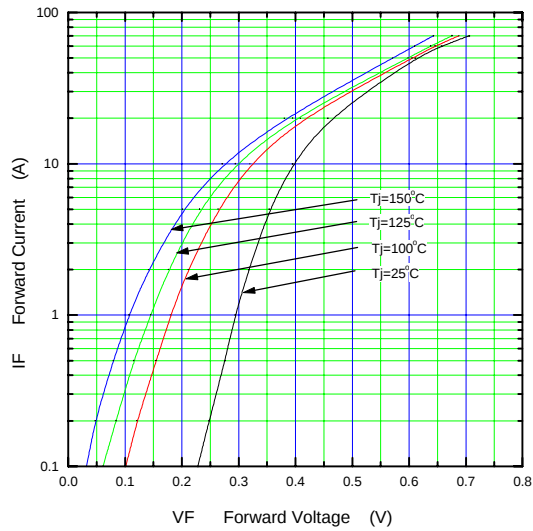
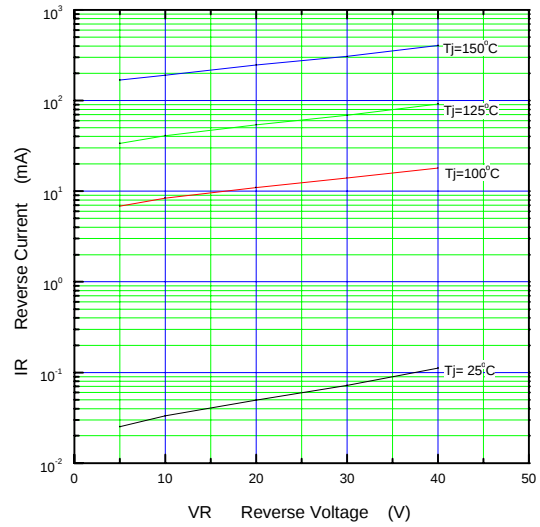
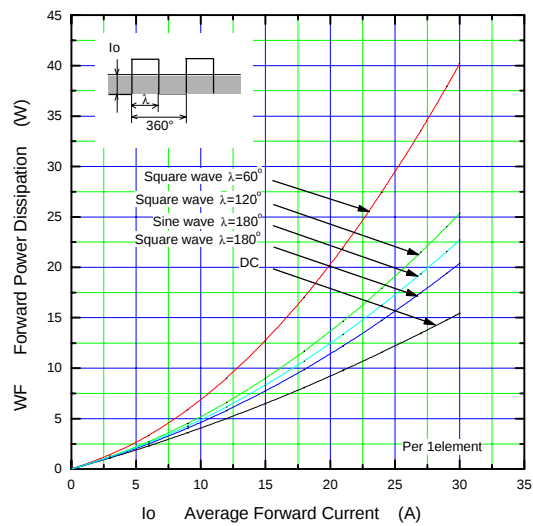
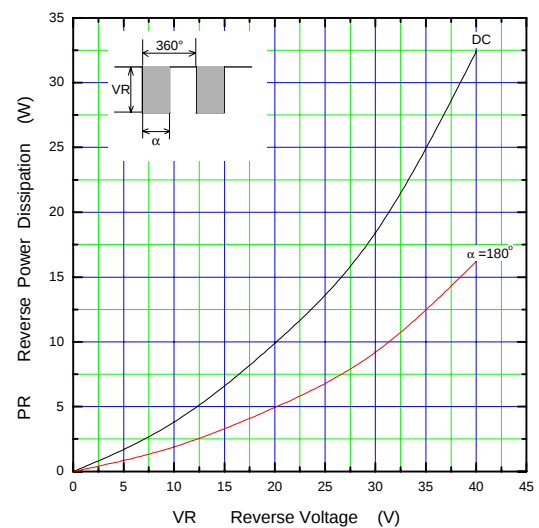
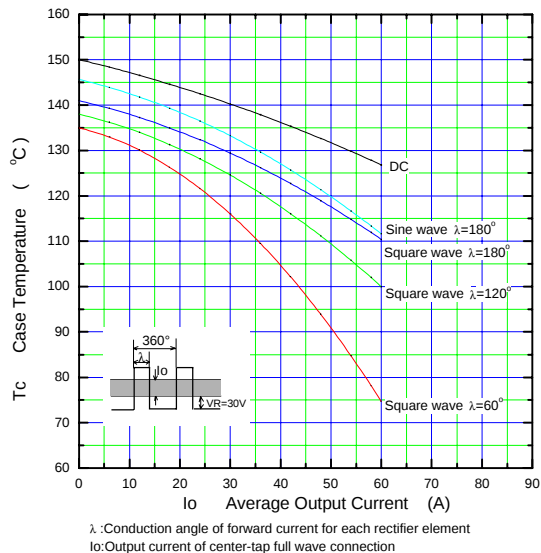
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	48	V
Average output current	I_o	Square wave, duty=1/2 Tc=110°C	60*	A
Surge current	I_{FSM}	Sine wave 10ms	500	A
Operating junction temperature	T_j		-40 to +150	°C
Storage temperature	T_{stg}		-40 to +150	°C

* Average forward current of centertap full wave connection

- Electrical characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=25A$	0.55	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	50	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	0.75	°C/W

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