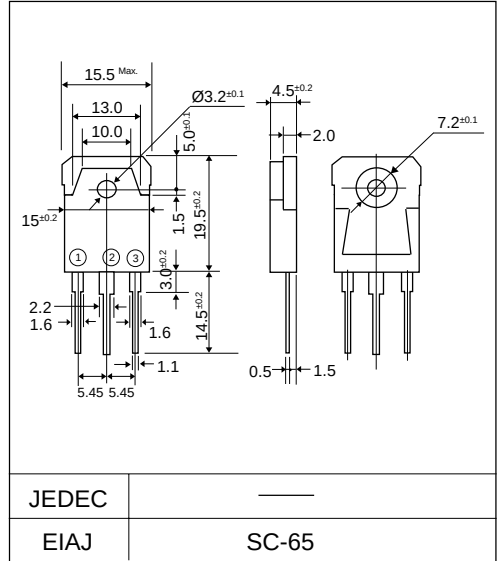


ESAD83-006 (30A)

(60V / 30A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



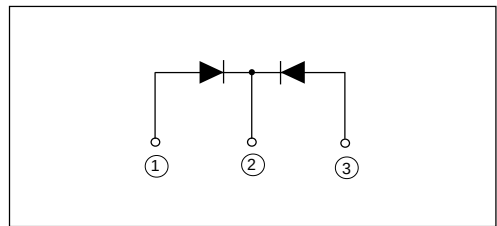
■ Features

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

■ Applications

- High speed power switching

■ Connection diagram



■ Maximum ratings and characteristics

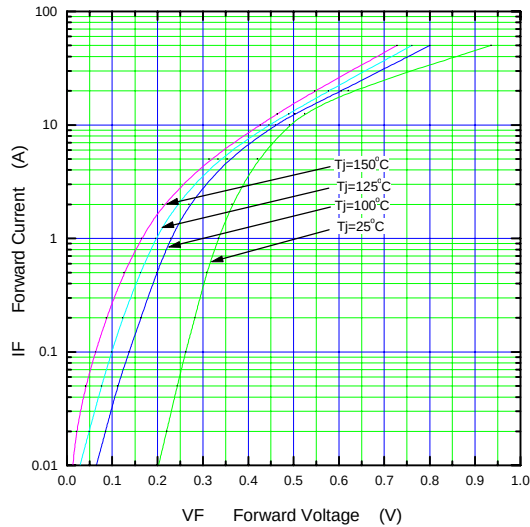
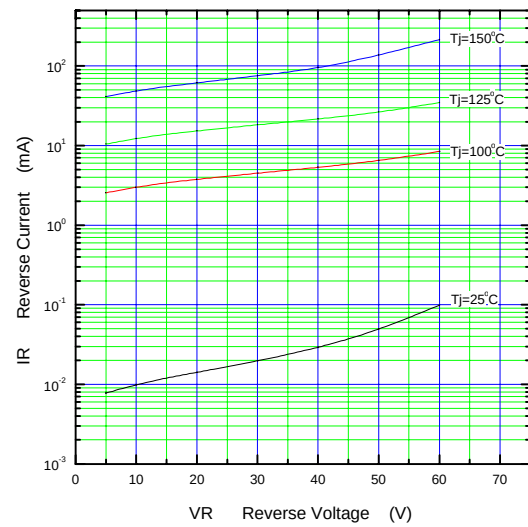
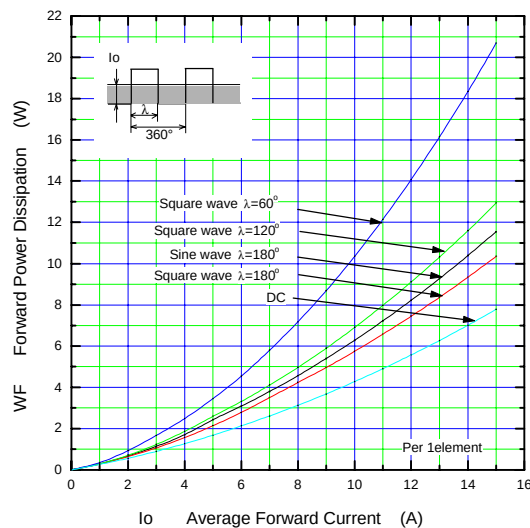
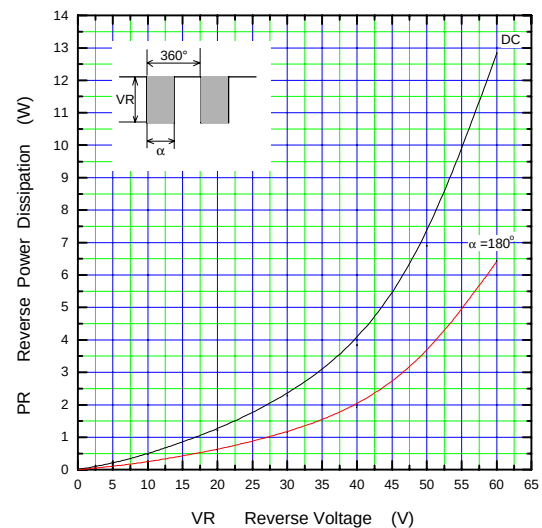
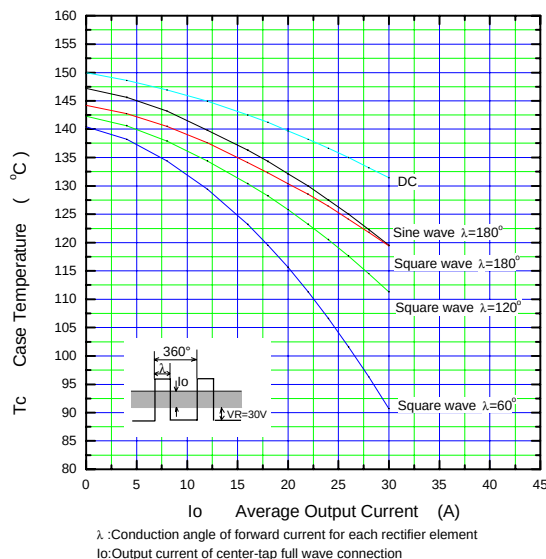
- Absolute maximum ratings

Item	Symbol	Conditions	Ratings	Unit
Repetitive peak reverse voltage	V_{RRM}		60	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	60	V
Average output current	I_o	Square wave, duty=1/2 Tc=119°C	30*	A
Suege current	I_{FSM}	Sine wave 10ms	200	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}	$I_{FM}=12.5A$	0.58	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	20	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	°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.)**