

ESAB85-009 (5A)

(90V / 5A)

SCHOTTKY BARRIER DIODE

■ Features

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

■ Applications

- High speed power switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

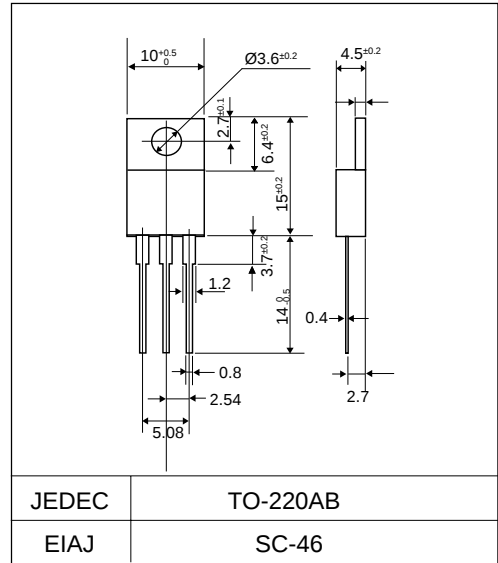
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		90	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	100	V
Average output current	I_o	Square wave, duty=1/2 Tc=117°C	5.0*	A
Surge current	I_{FSM}	Sine wave 10ms	60	A
Operating junction temperature	T_j		-40 to +150	°C
Storage temperature	T_{stg}		-40 to +150	°C

* Average forward current of centertap full wave connection

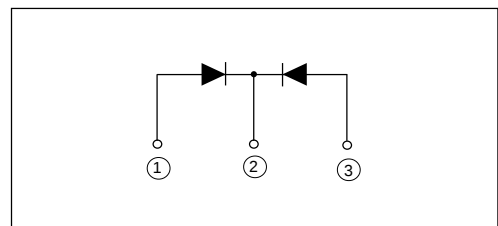
- Electrical characteristics (Ta=25°C Unless otherwise specified)

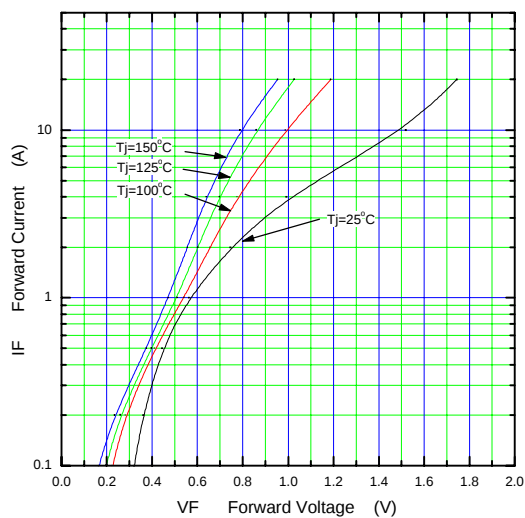
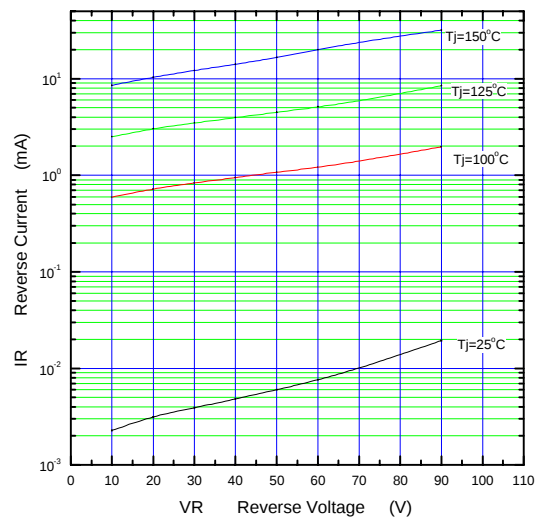
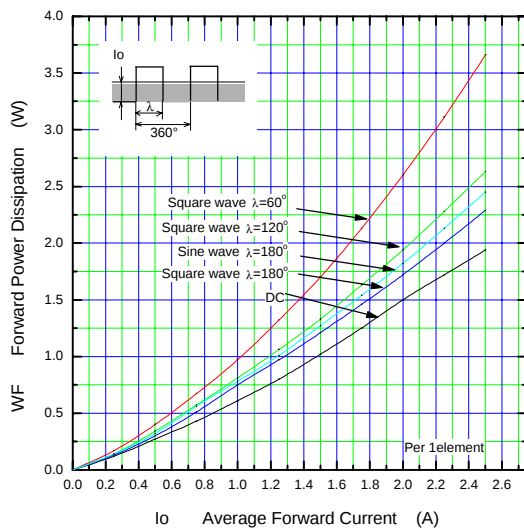
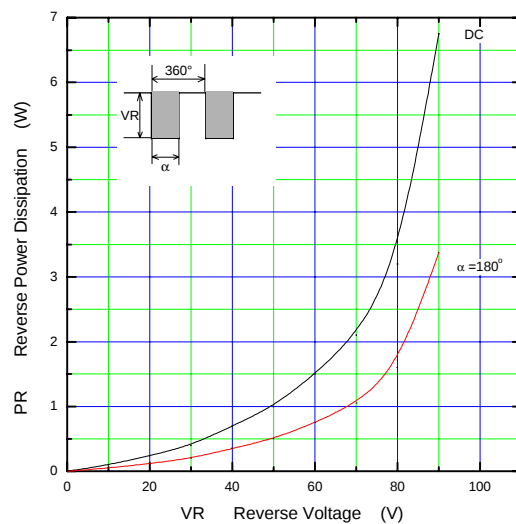
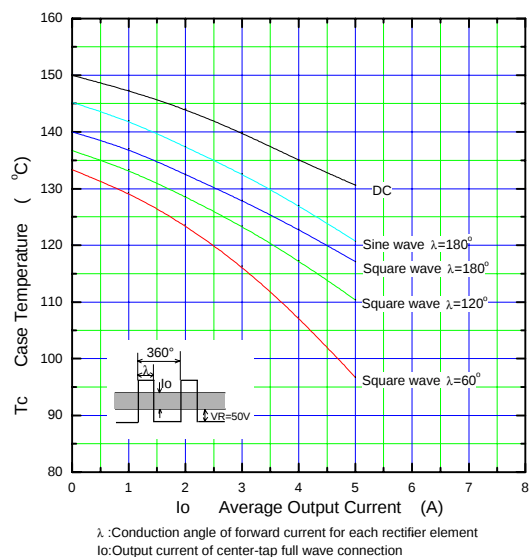
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.0A$	0.9	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	2.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	°C/W

■ 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.)**