

ESAB82-004 (5A)

(40V / 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

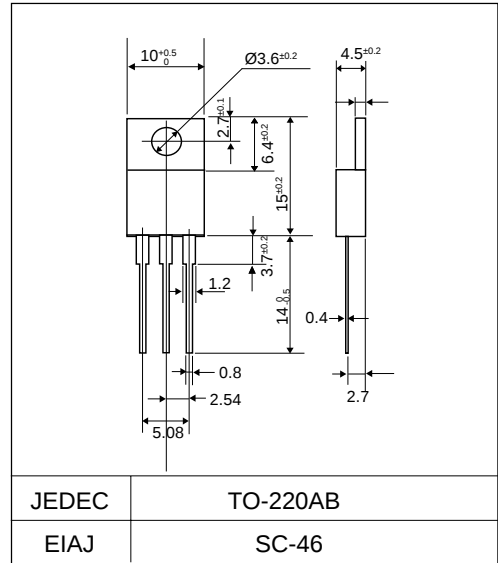
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	48	V
Average output current	I_o	Square wave, duty=1/2 Tc=126°C	5.0*	A
Surge current	I_{FSM}	Sine wave 10ms	100	A
Operating junction temperature	T_j		-40 to +150	°C
Storage temperature	T_{stg}		-40 to +150	°C

* Average forward current of centertap full wave connection

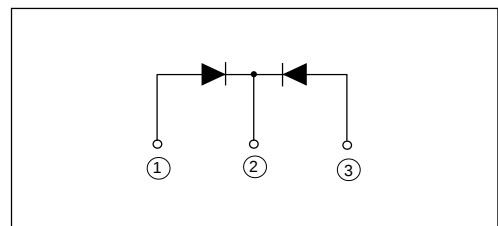
- Electrical characteristics (Ta=25°C Unless otherwise specified)

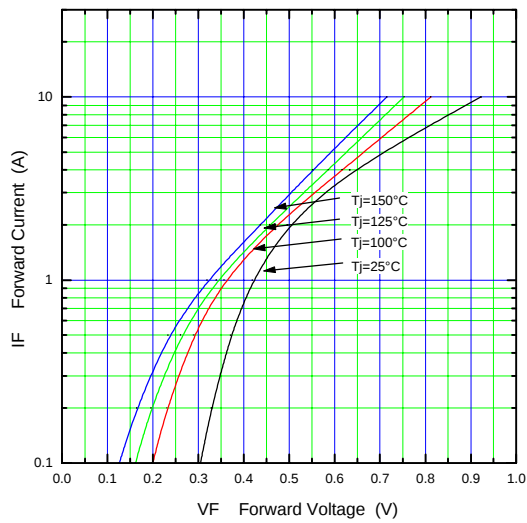
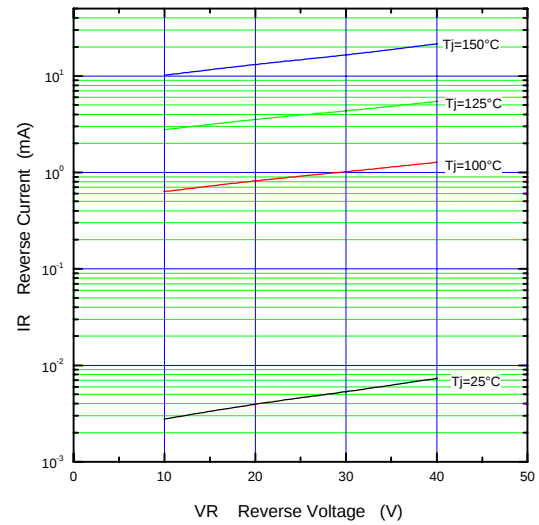
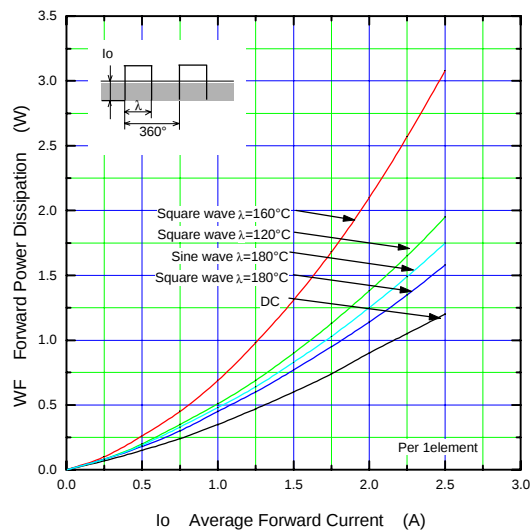
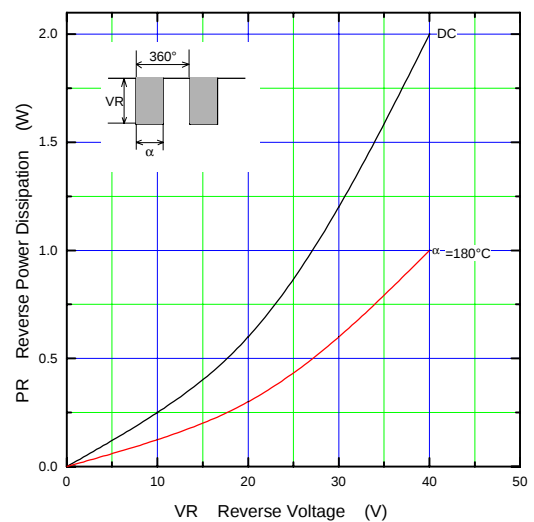
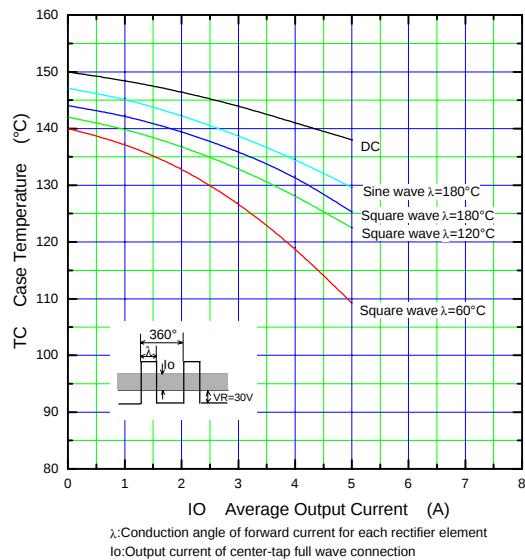
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.0A$	0.55	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	°C/W

■ Outline drawings, mm



■ Connection diagram



■ CharacteristicsForward Characteristic (typ.)Reverse Characteristic (typ.)Forward Power DissipationReverse Power DissipationCurrent Derating (I_o - T_c)Junction Capacitance Characteristic (typ.)