

PA806C03 (30A)

(30V / 30A)

SCHOTTKY BARRIER DIODE

Features

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

Applications

- High speed power switching

Maximum ratings and characteristics

- Absolute maximum ratings

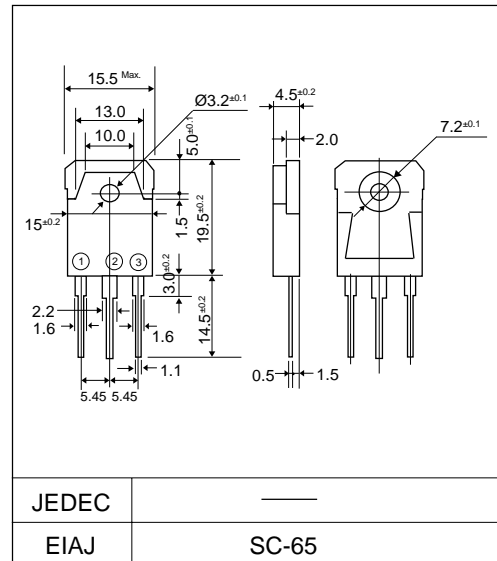
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		30	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500ns$, duty=1/40	30	V
Average output current	I_o	Square wave, duty=1/2 $T_c=100^\circ C$	30*	A
Surge current	I_{FSM}	Sine wave 10ms	250	A
Operating junction temperature	T_j		-40 to +150	$^\circ C$
Storage temperature	T_{stg}		-40 to +150	$^\circ C$

* Average forward current of centertap full wave connection

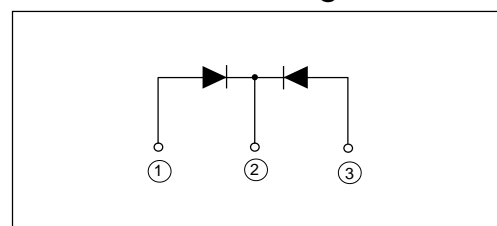
- Electrical characteristics ($T_a=25^\circ C$ Unless otherwise specified)

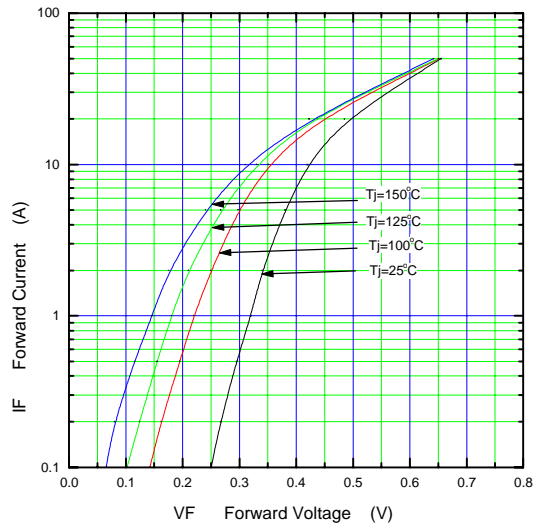
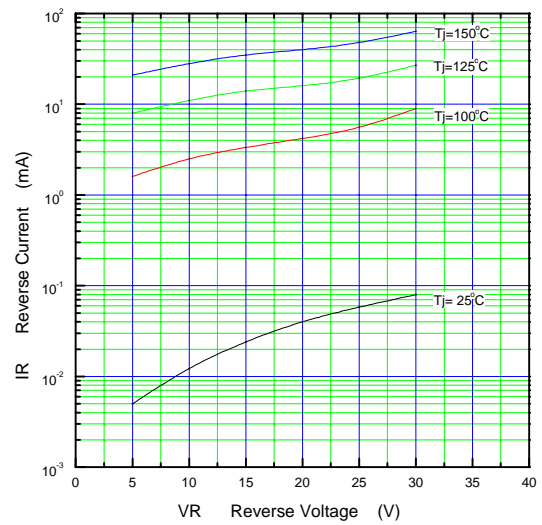
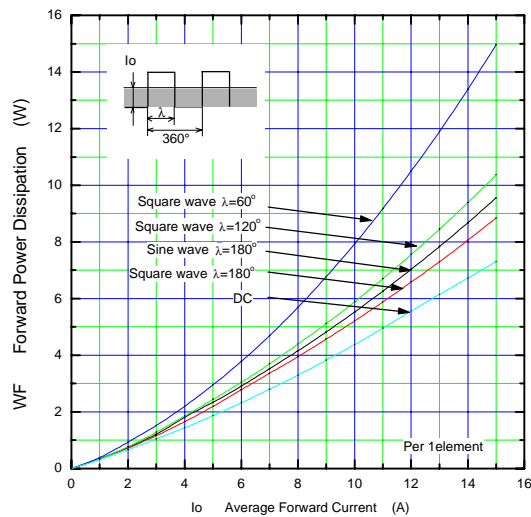
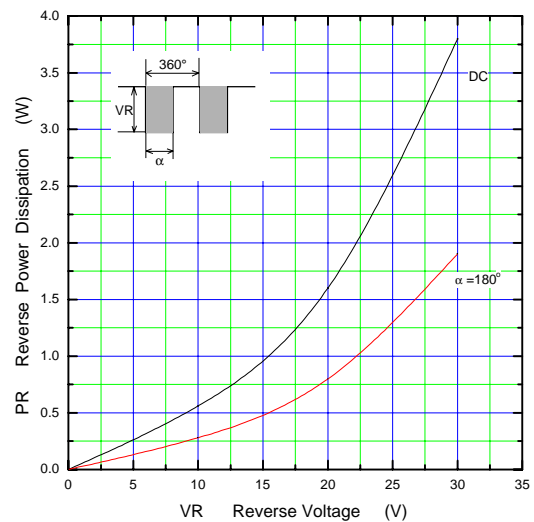
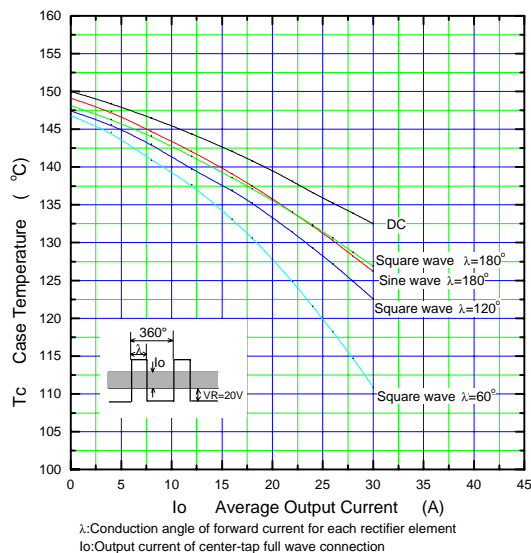
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=12.5A$	0.47	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	20	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.2	$^\circ C/W$

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.)**