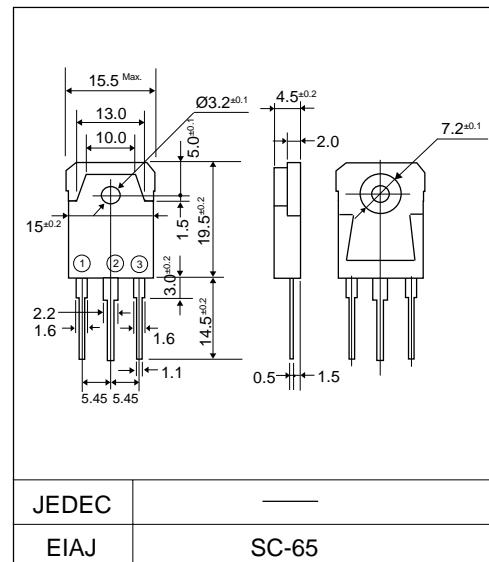


PA806C03 (30A)

(30V / 30A)

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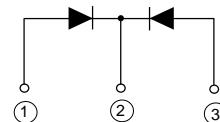
■ Outline drawings, mm



JEDEC

SC-65

■ Connection diagram



■ Applications

- High speed power switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

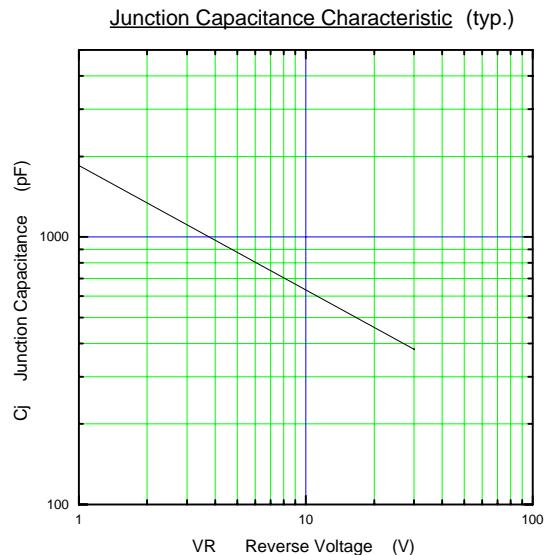
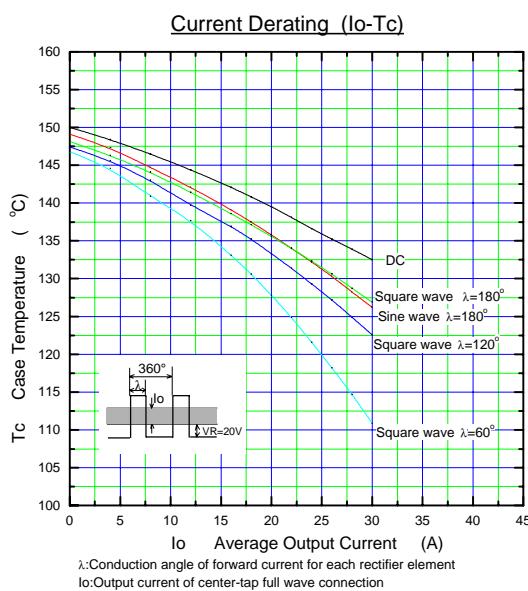
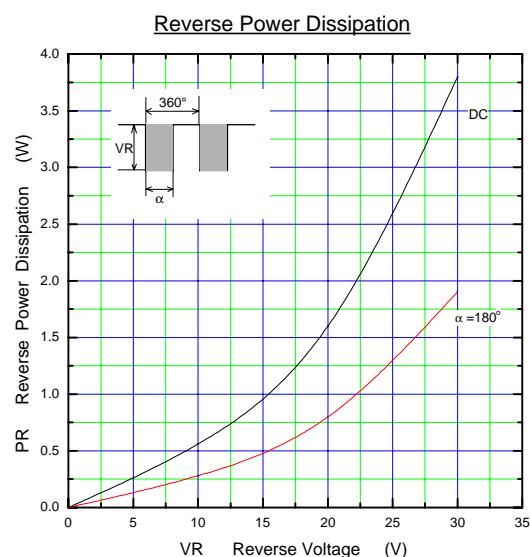
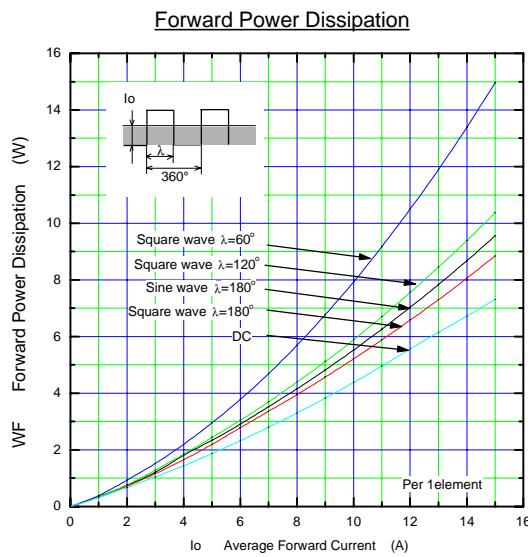
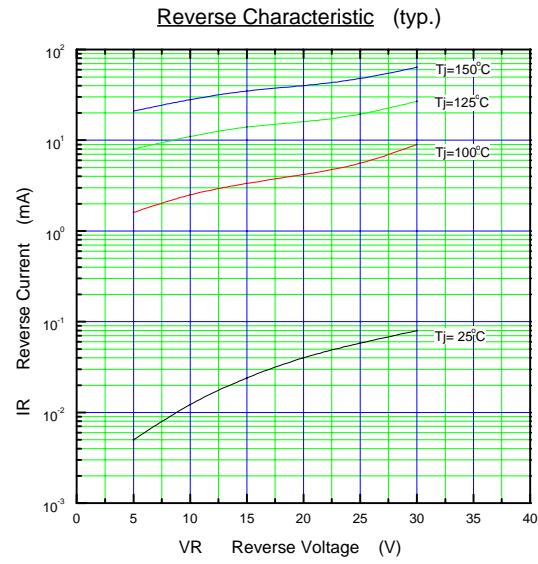
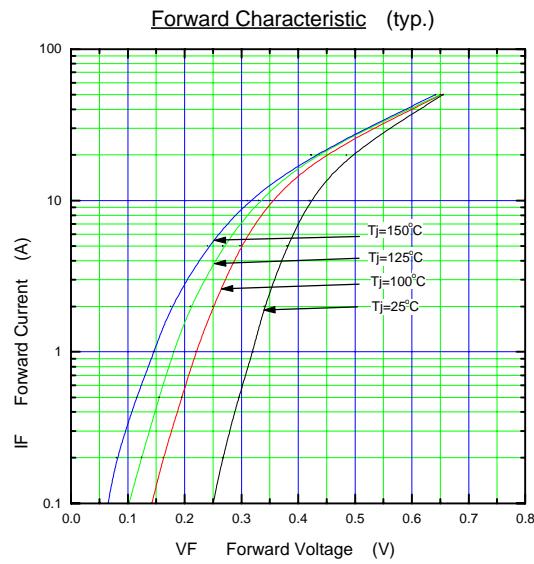
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		30	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500\text{ns}$, duty=1/40	30	V
Average output current	I_o	Square wave, duty=1/2 $T_c=100^\circ\text{C}$	30*	A
Surge current	I_{FSM}	Sine wave 10ms	250	A
Operating junction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

* Average forward current of centertap full wave connection

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

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

■ Characteristics



λ :Conduction angle of forward current for each rectifier element
Io:Output current of center-tap full wave connection

