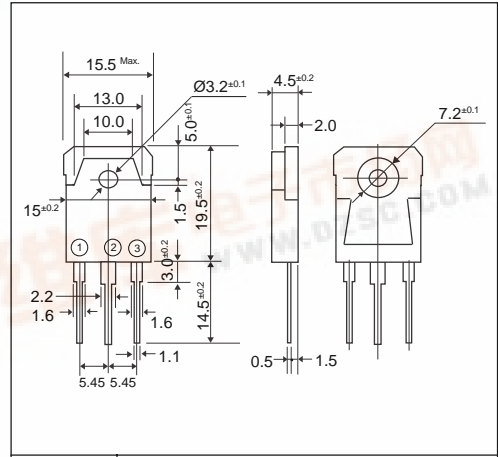


PA905C4 (20A)

(400V / 20A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

Outline drawings, mm



JEDEC	—
EIAJ	SC-65

Features

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

Applications

- High speed power switching

Maximum ratings and characteristics

- Absolute maximum ratings

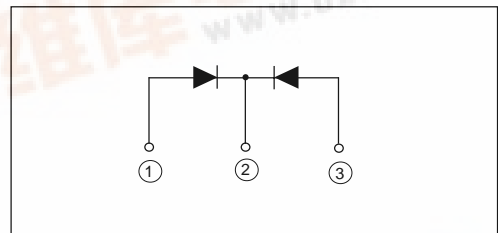
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}		400	V
Average output current	I _o	Rectangle wave, duty=1/2, T _c =92°C	20*	A
Surge current	I _{FSM}	Sine wave 10ms	80	A
Operating junction temperature	T _j		-40 to +150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Average forward current of centertap full wave connection

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

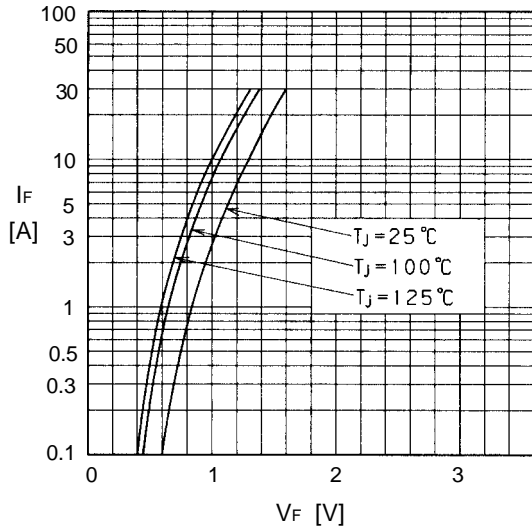
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _{FM}	I _{FM} =10A	1.5	V
Reverse current	I _{RRM}	V _R =V _{RRM}	500	µA
Reverse recovery time	t _{rr}	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	50	ns
Thermal resistance	R _{th(j-c)}	Junction to case	1.5*	°C/W

Connection diagram

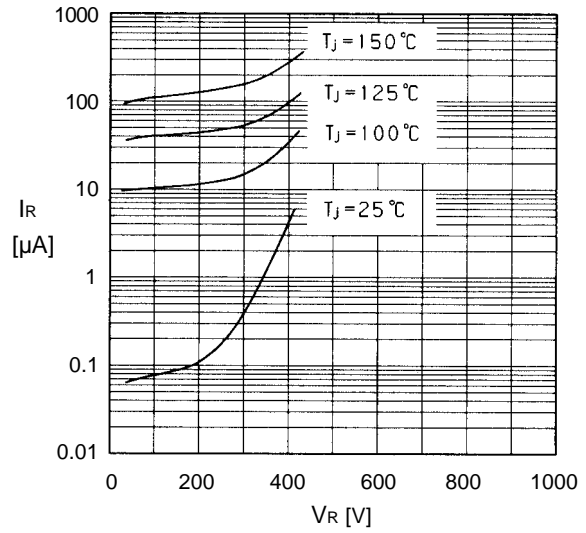


■ Characteristics

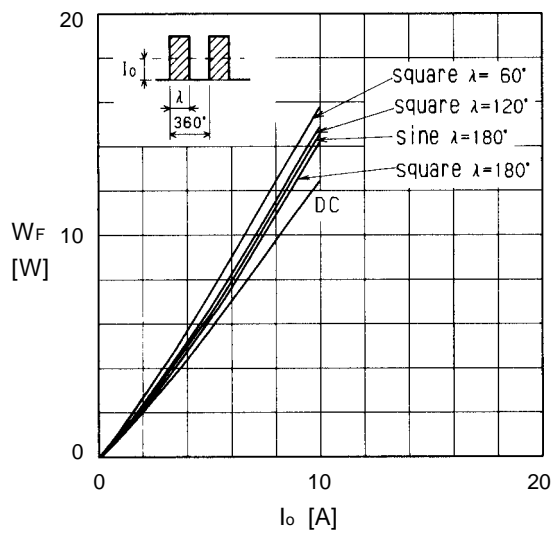
Forward characteristics



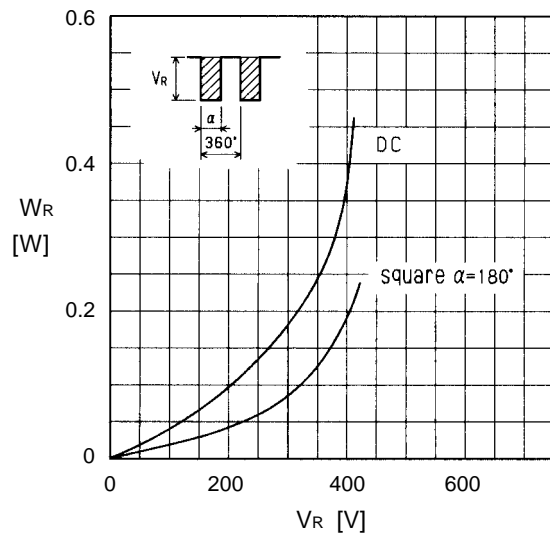
Reverse characteristics



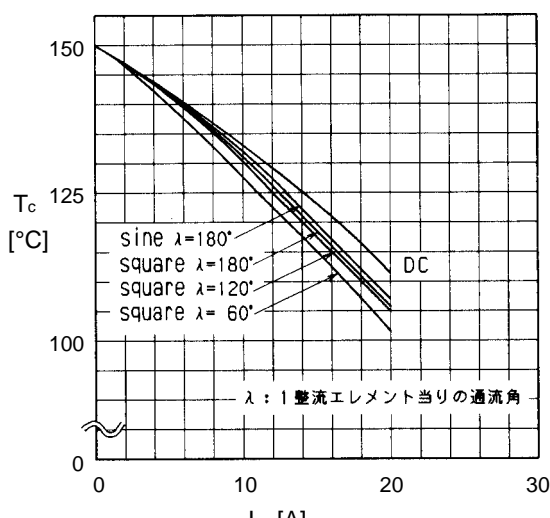
Forward power dissipation



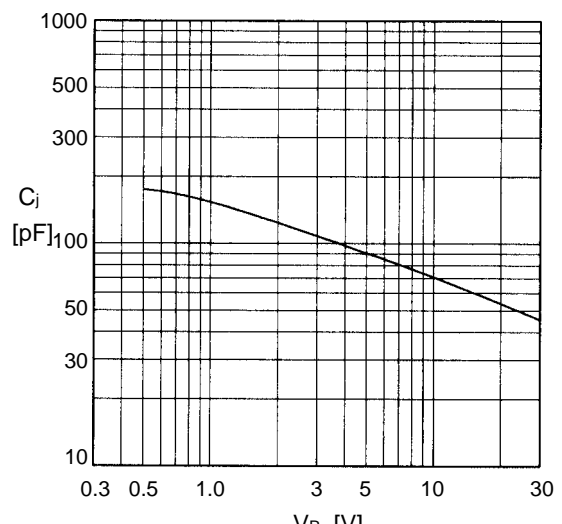
Output current-case temperature



Output current-case temperature



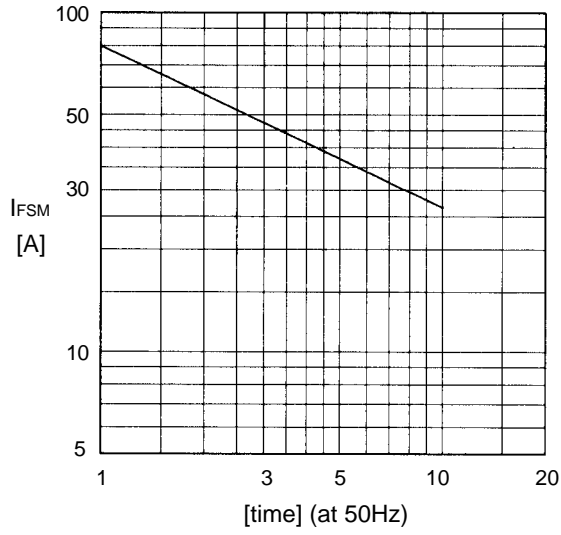
Junction capacitance characteristics



(400V / 20A)

PA905C4 (20A)

Surge capability



Transient thermal impedance

