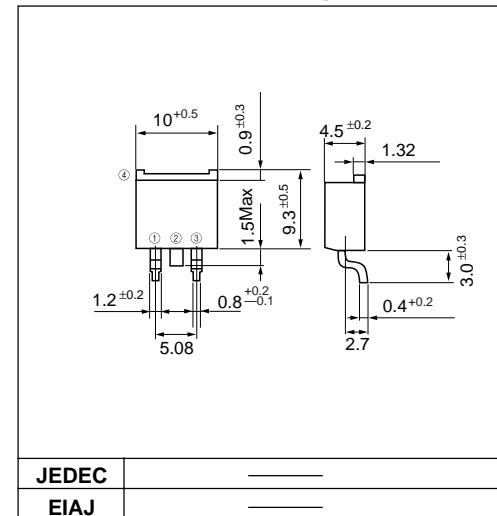


TS902C3 (10A)

(300V / 10A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Outline drawings, mm



JEDEC

EIAJ

■ Features

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

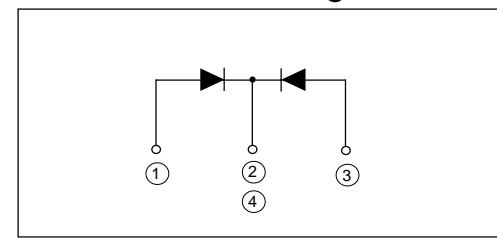
■ Applications

- High speed power switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

■ Connection diagram



Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		300	V
Average output current	I_o	Square wave, duty=1/2, $T_c=125^\circ C$	10*	A
Surge current	I_{FSM}	Sine wave 10ms	40	A
Operating junction temperature	T_j		-40 to +150	°C
Storage temperature	T_{stg}		-40 to +150	°C

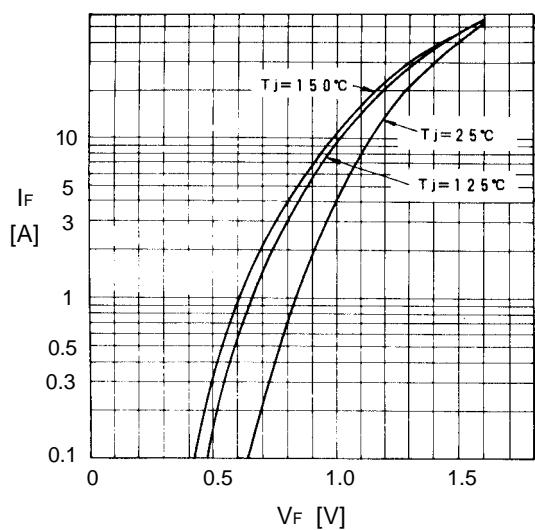
* Average forward current of centertap full wave connection

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

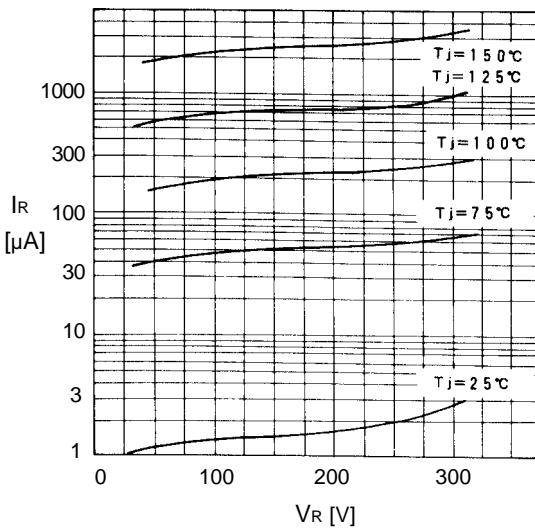
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=5.0A$	1.2	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	100	μA
Reverse recovery time	t_{rr}	$I_f=0.1A, I_r=0.2A, I_{rec}=0.05A$	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.5*	°C/W

■ Characteristics

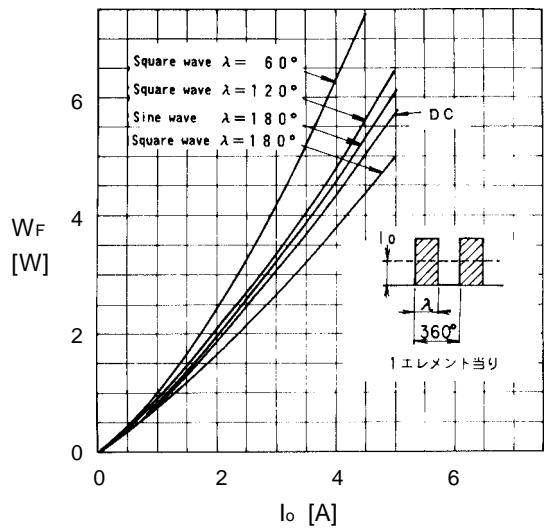
Forward characteristics



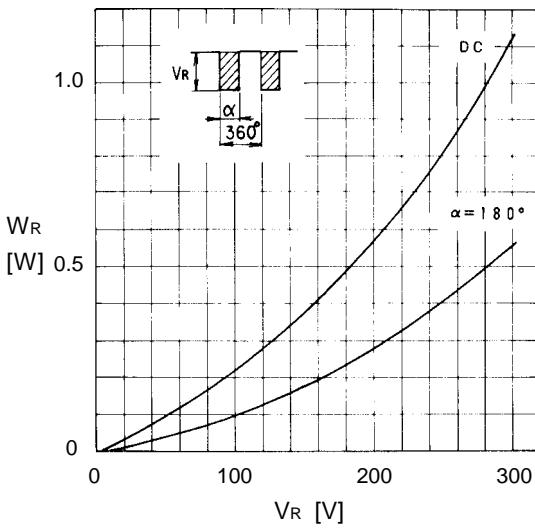
Reverse characteristics



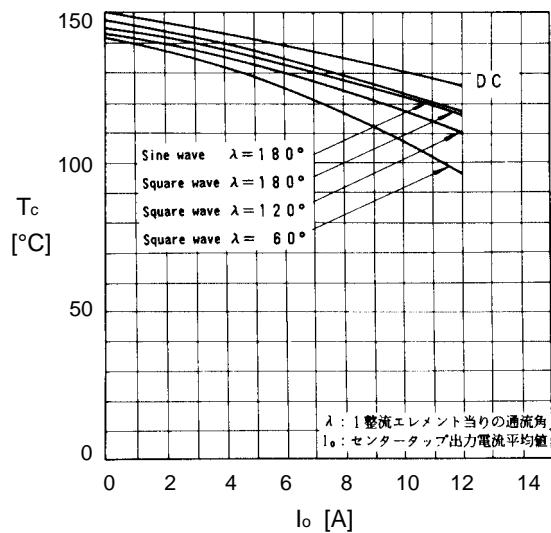
Forward power dissipation



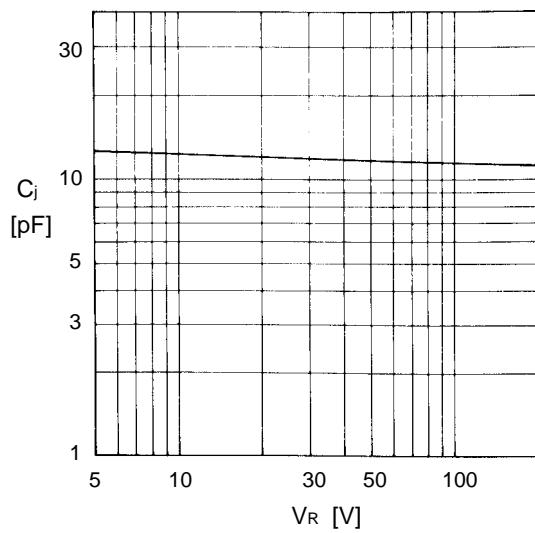
Reverse power dissipation



Output current-case temperature



Junction capacitance characteristics



Transient thermal impedance

