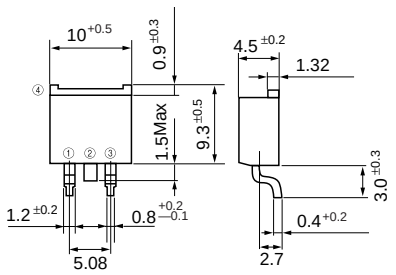
TS906C2 (20A) (200V / 20A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Outline drawings, mm

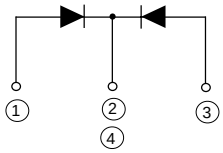


JEDEC	———
EIAJ	———

■ Features

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

■ 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}		200	V
Average output current	I_O	Square wave, duty=1/2, Tc=112°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

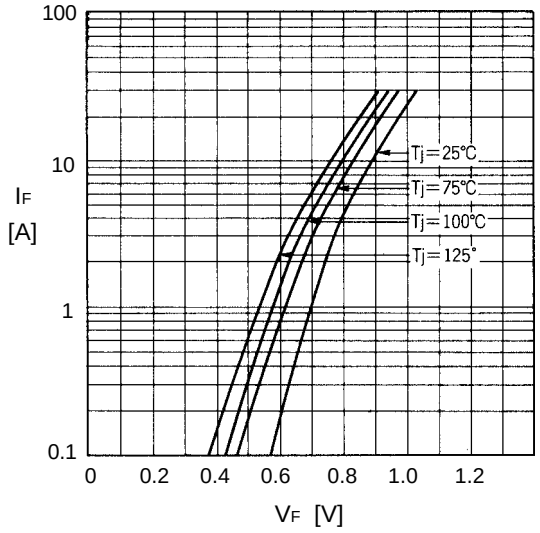
*Average forward current of centertap full wave connection

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

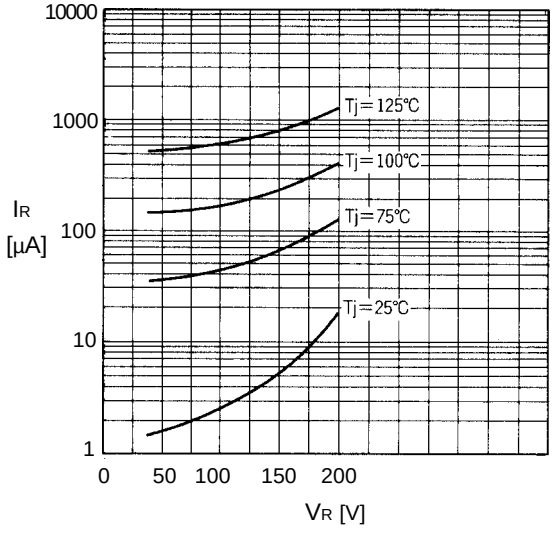
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	I_{FM}=10A	0.98	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	200	μA
Reverse recovery time	t rr	I_F=0.1A, I_R=0.2A, Irec=0.05A	35	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0*	°C/W

■ Characteristics

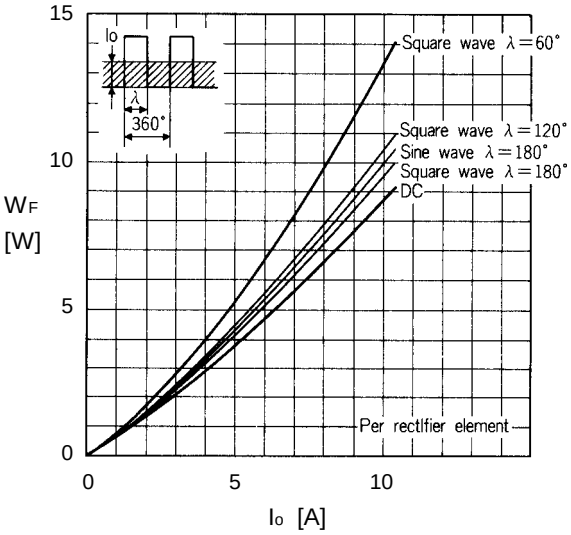
Forward characteristics



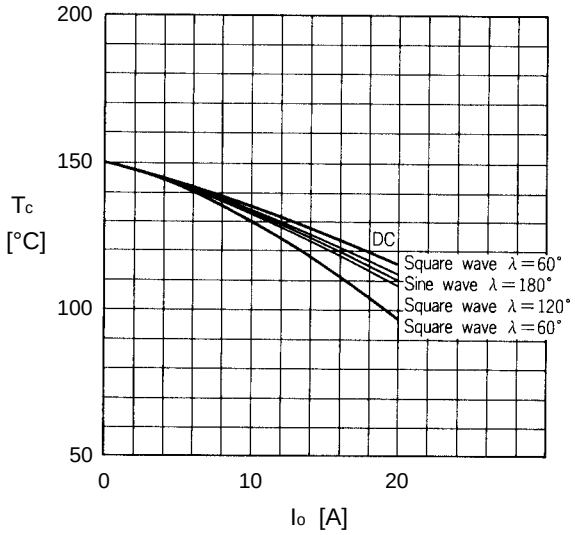
Reverse characteristics



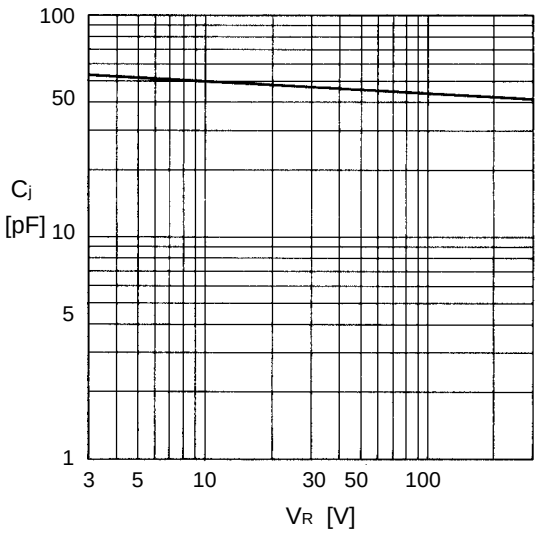
Forward power dissipation



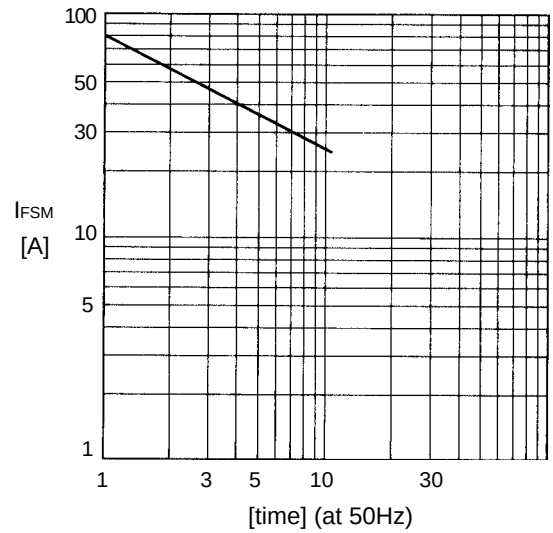
Output current-case temperature



Junction capacitance characteristics



Surge capability



Transient thermal impedance

