

TS912S6 (10A)

(600V / 10A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

Features

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

Applications

- High speed power switching

Maximum ratings and characteristics

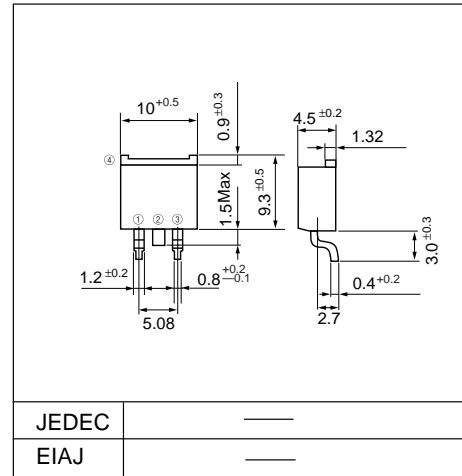
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		600	V
Non-repetitive peak reverse voltage	V_{RSM}		600	V
Average output current	I_o	duty=1/2, $T_c=105^{\circ}C$ Rectangle wave	10	A
Surge current	I_{FSM}	Sine wave 10ms	80	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

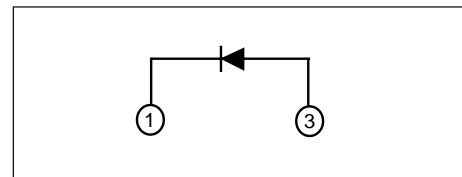
- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=10A$	1.7	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	2.5	$^{\circ}C/W$

Outline drawings, mm

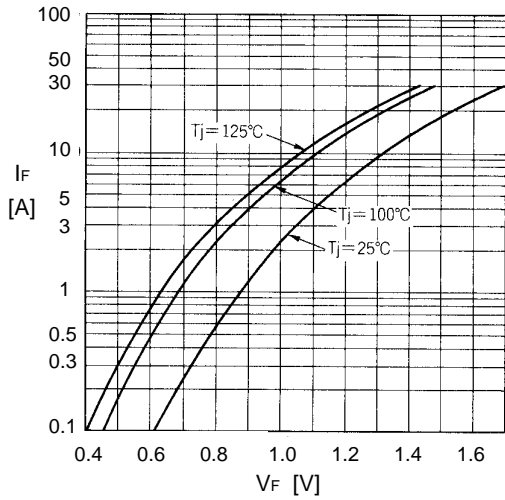


Connection diagram

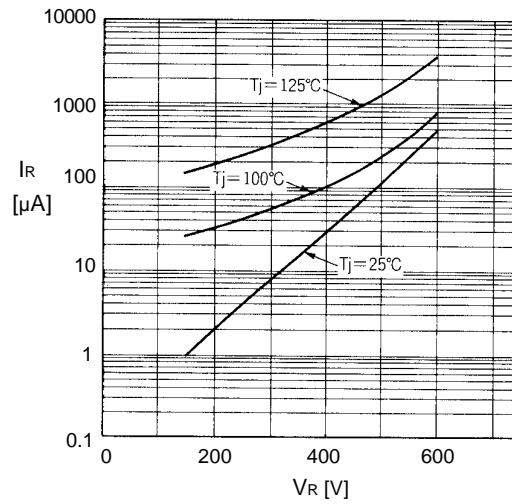


Characteristics

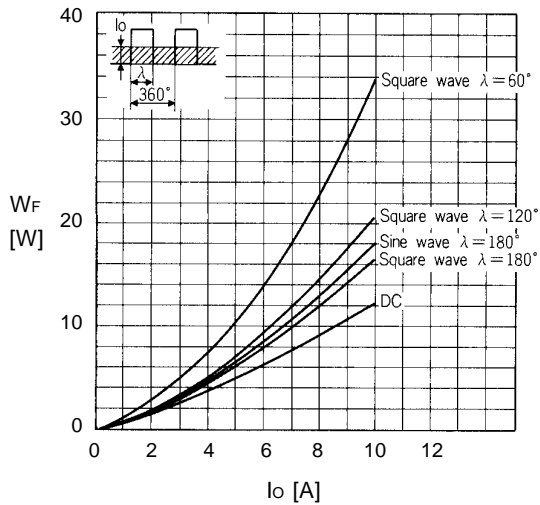
Forward characteristics



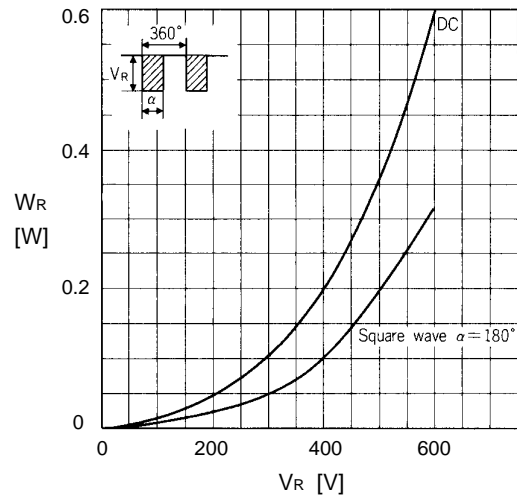
Reverse characteristics



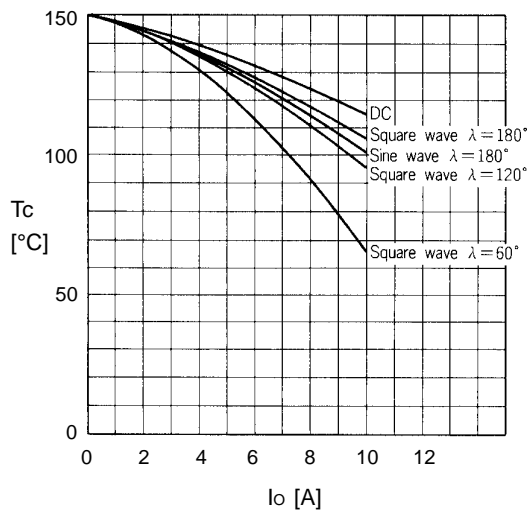
Forward power dissipation



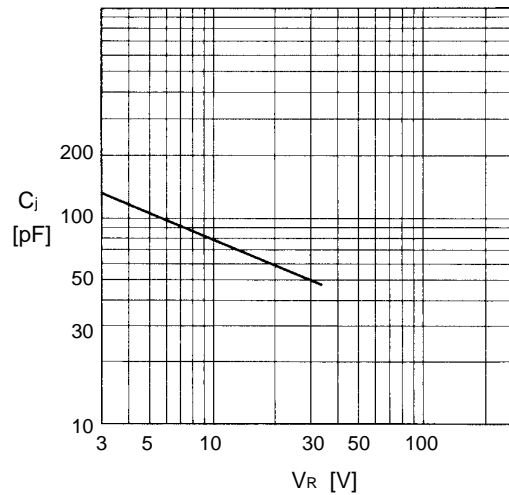
Reverse power dissipation



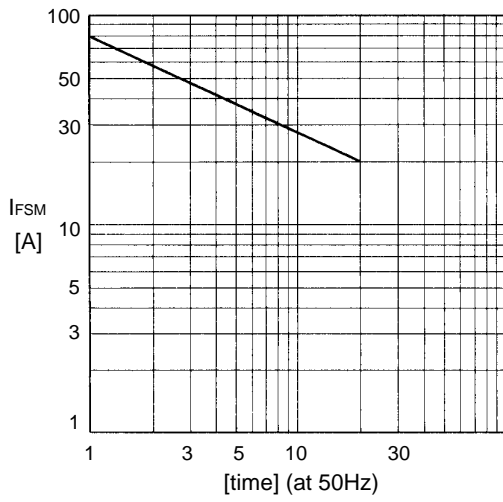
Output current-case temperature



Junction capacitance characteristics



Surge capability



Transient thermal impedance

