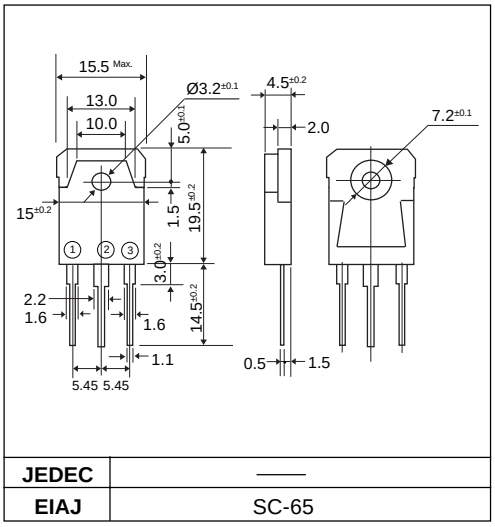
ESAD92-03 (20A)

(300V / 20A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Outline drawings, mm



JEDEC	———
EIAJ	SC-65

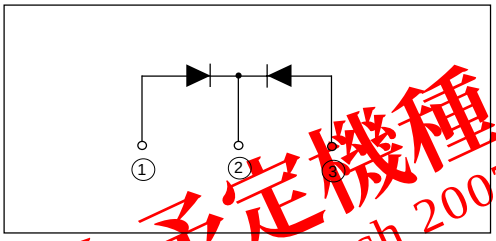
■ Features

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

■ Applications

- High speed power switching

■ Connection diagram



■ Maximum ratings and characteristics

● Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		300	V
Non-repetitive peak reverse voltage	V_{RSM}		300	V
Average output current	I_O	Square wave, duty=1/2, Tc=110°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

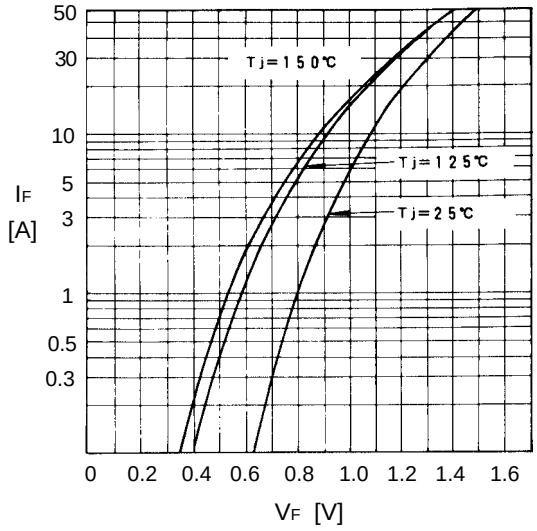
● Electrical characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	I_{FM}=10A	1.2	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	40	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.5*	°C/W

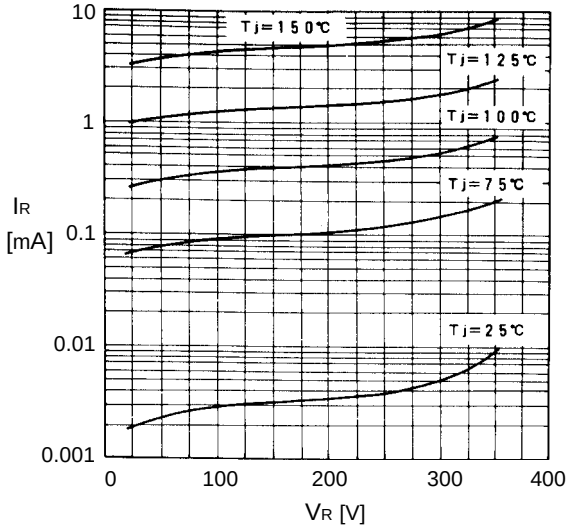
2007年3月 保守廃止予定機種
This product is scheduled be obsolete on march 2007.
Not recommend for new design.

■ Characteristics

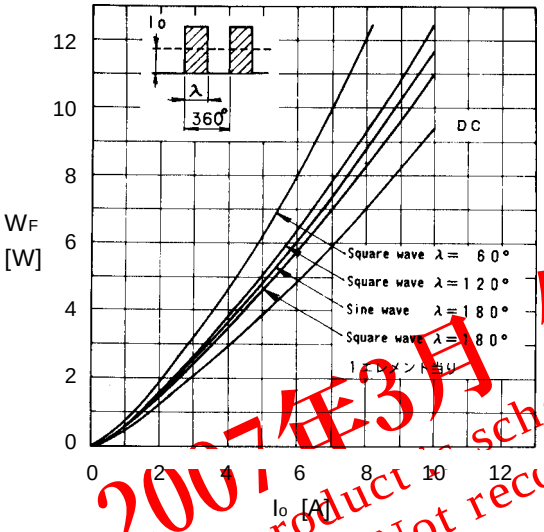
Forward characteristics



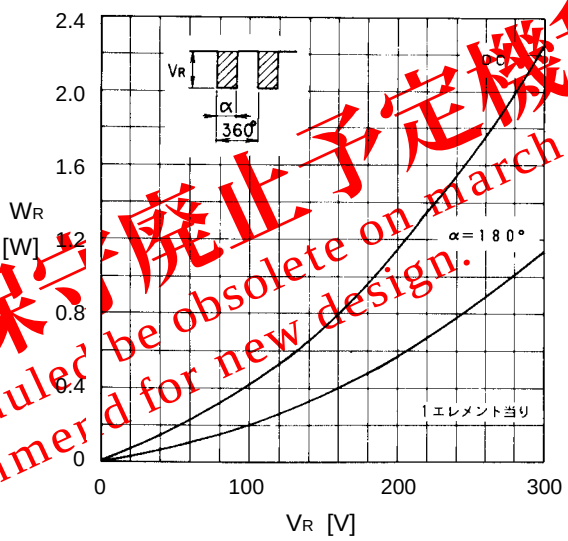
Reverse characteristics



Forward power dissipation

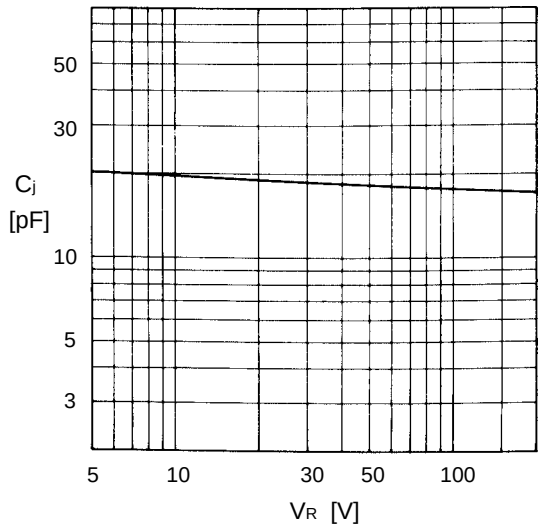


Output current-case temperature

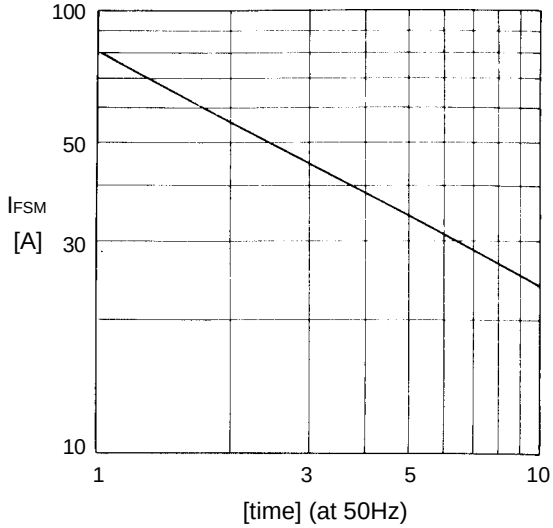


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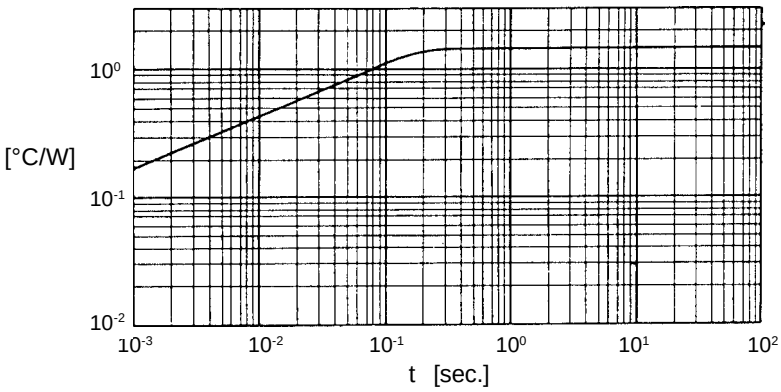
Junction capacitance characteristics



Surge capability



Transient thermal impedance



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