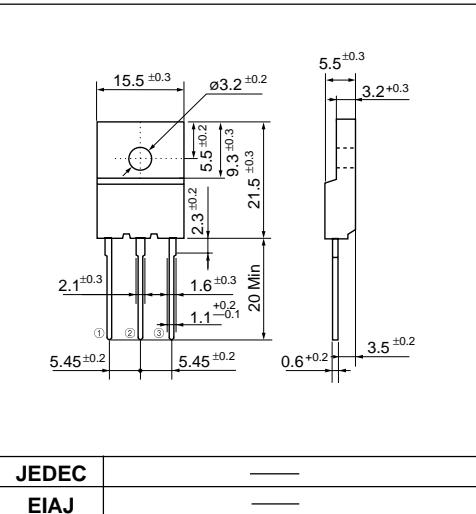


ESAC93M-02R (12A)

(200V / 12A)

LOW LOSS SUPER HIGH SPEED RECTIFIER

■ Outline drawings, mm



■ Features

- Insulated package by fully molding
- 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}		200	V
Non-repetitive peak reverse voltage	V _{RSM}		200	V
Average output current	I _O	Square wave, duty=1/2, T _c =116°C	12*	A
Surge current	I _{FSM}	Sine wave 10ms	60	A
Operating junction temperature	T _j		-40 to +150	°C
Storage temperature	T _{stg}		-40 to +150	°C

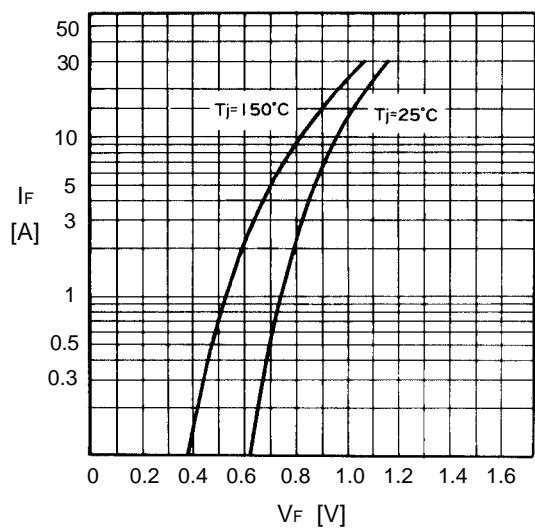
* Average forward current of centertap full wave connection

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

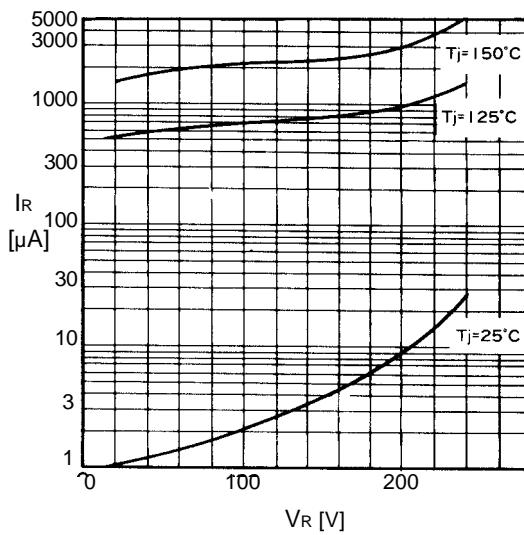
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _{FM}	I _{FM} =6.0A	0.95	V
Reverse current	I _{RRM}	V _R =V _{RRM}	100	μA
Reverse recovery time	t _{rr}	I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	35	ns
Thermal resistance	R _{th(j-c)}	Junction to case	2.7*	°C/W

■ Characteristics

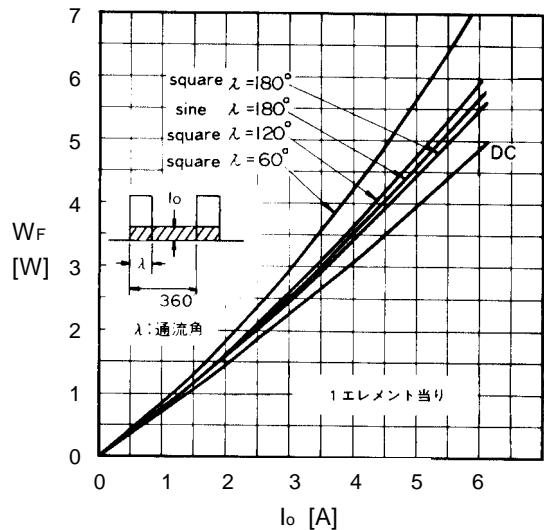
Forward characteristics



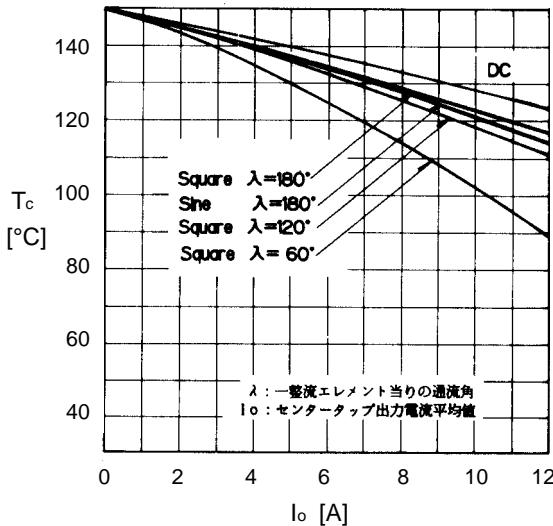
Reverse characteristics



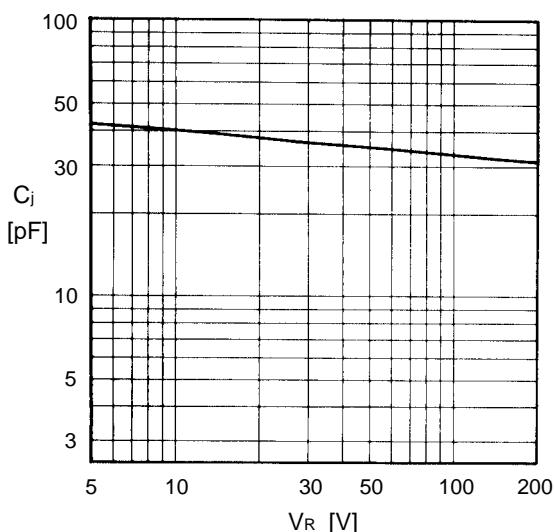
Forward power dissipation



Output current-case temperature



Junction capacitance characteristics



Surge capability

