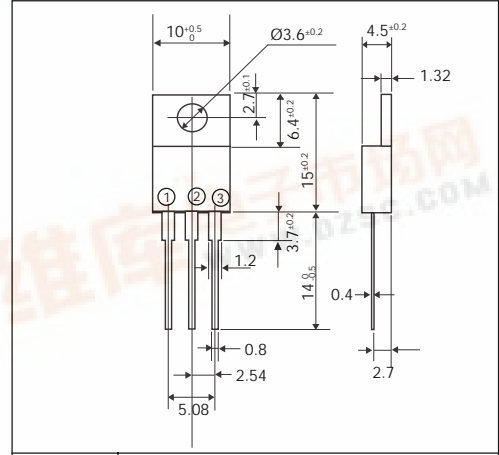


ESAB33(CS) (5A)

(200V / 5A)

FAST RECOVERY DIODE

Outline drawings, mm



JEDEC	TO-220AB
EIAJ	SC-46

Features

- Soft recovery, low noise
- High reliability

Applications

- High speed power switching

Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
			-02	
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 =110°C	5*	A
Surge current	I _{FSM}	Sine wave 10ms	30	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

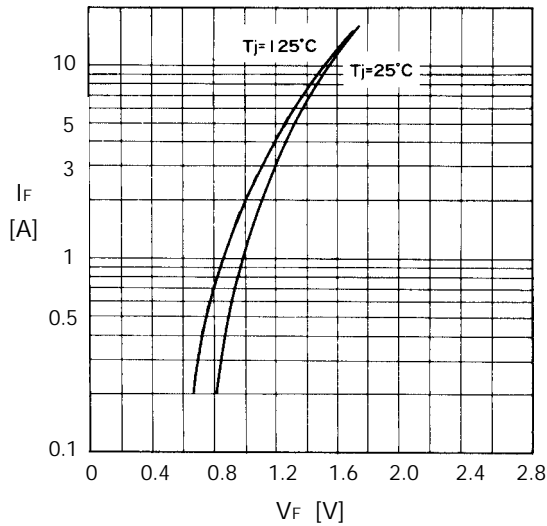
- Electrical characteristics (T_a=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _{FM}	I _{FM} =2.5A	1.4	V
Reverse current	I _{RRM}	V _R =V _{RRM}	100	µA
Reverse recovery time	trr	I _F =0.1A, I _R =0.1A	100	ns
		I _F =0.1A, I _R =0.2A, I _{rec} =0.05A	45	
Thermal resistance	R _{th(j-c)}	junction to case	5.0	°C/W

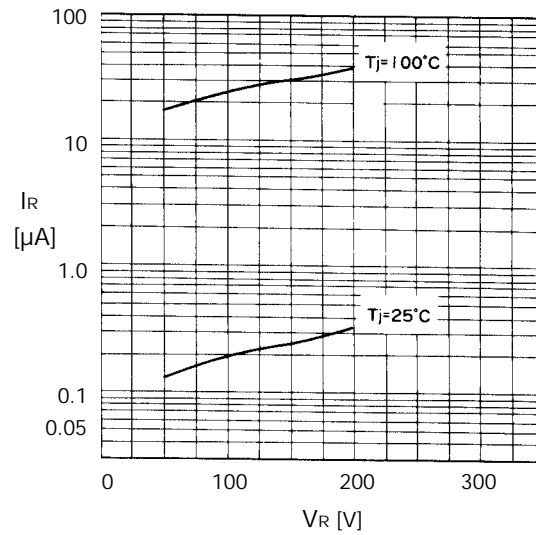


■ Characteristics

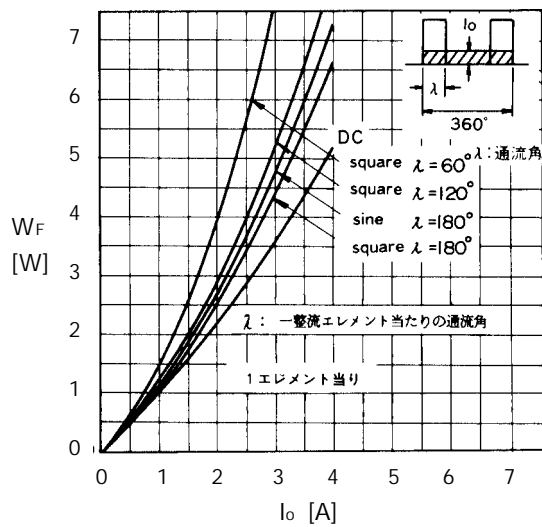
Forward characteristics



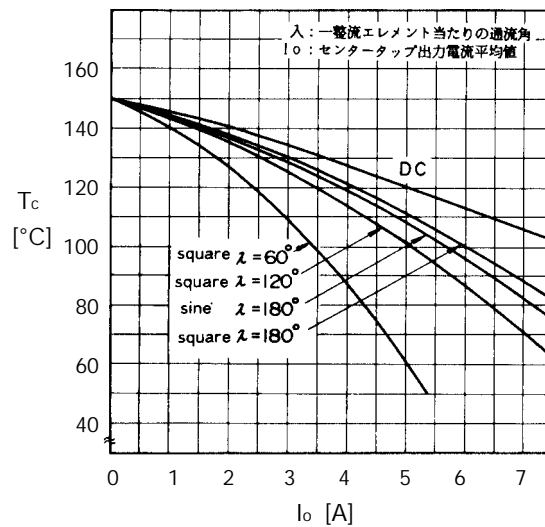
Reverse characteristics



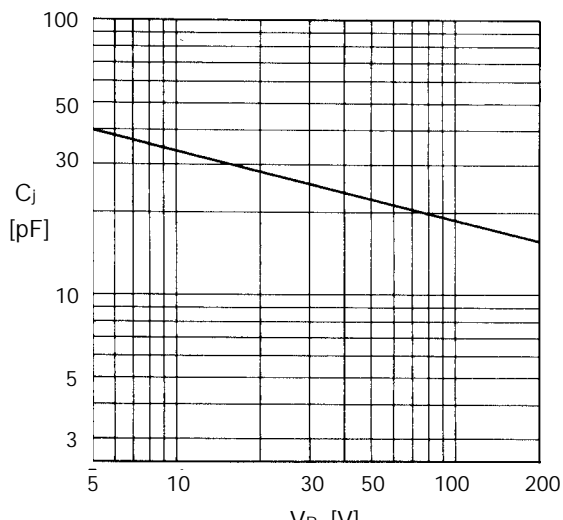
Forward power dissipation



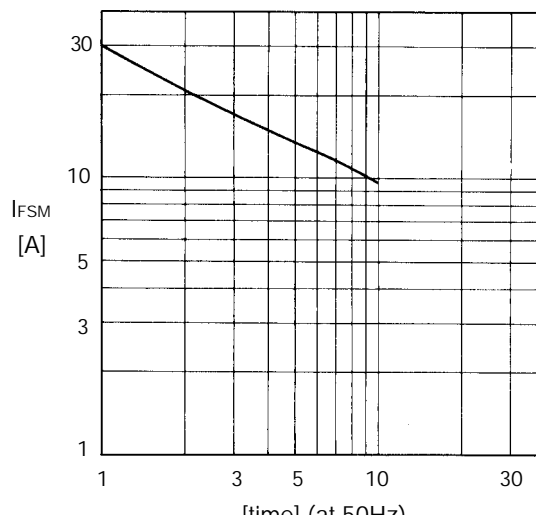
Output current-case temperature



Junction capacitance characteristics



Surge capability



(200V / 5A)

ESAB33(CS)(5A)

Transient thermal impedance

