

FAST RECOVERY DIODE

Features

- Soft recovery, low noise
- High reliability

Applications

- High speed power switching

Maximum ratings and characteristics

- Absolute maximum ratings

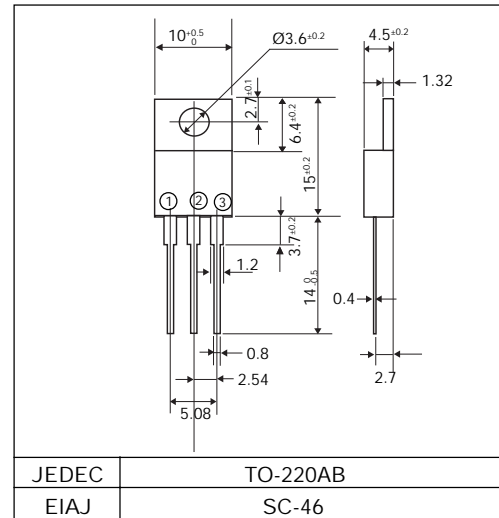
Item	Symbol	Conditions	Rating	Unit
			-02	
Repetitive peak reverse voltage	V_{RRM}		200	V
Non-Repetitive peak reverse voltage	V_{RSM}		200	V
Average output current	I_o	Square wave duty=1/2, $T_c=110^\circ\text{C}$	5*	A
Surge current	I_{FSM}	Sine wave 10ms	30	A
Operating junction temperature	T_j		-40 to +150	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

* Average forward current of centertap full wave connection

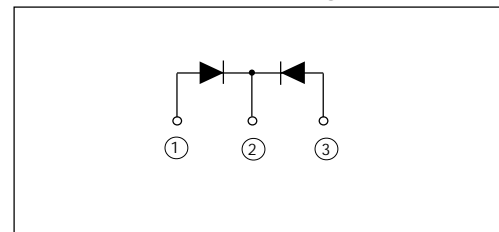
- Electrical characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.5\text{A}$	1.4	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	100	μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}, I_R=0.1\text{A}$	100	ns
		$I_F=0.1\text{A}, I_R=0.2\text{A}, I_{rec}=0.05\text{A}$	45	
Thermal resistance	$R_{th(j-c)}$	junction to case	5.0	$^\circ\text{C/W}$

Outline drawings, mm

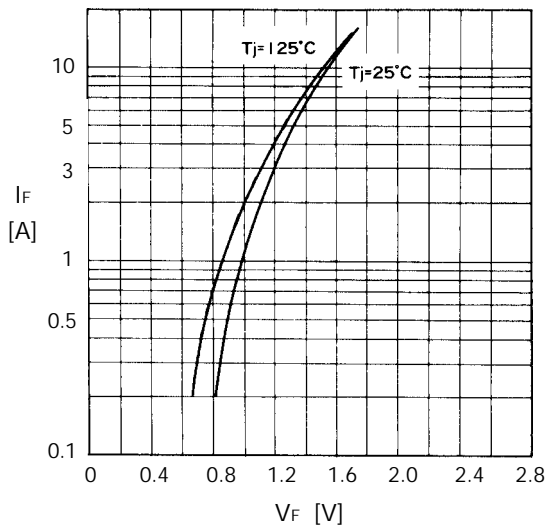


Connection diagram

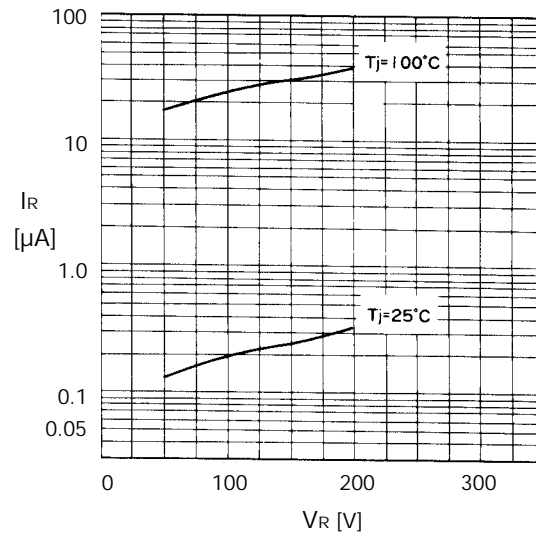


Characteristics

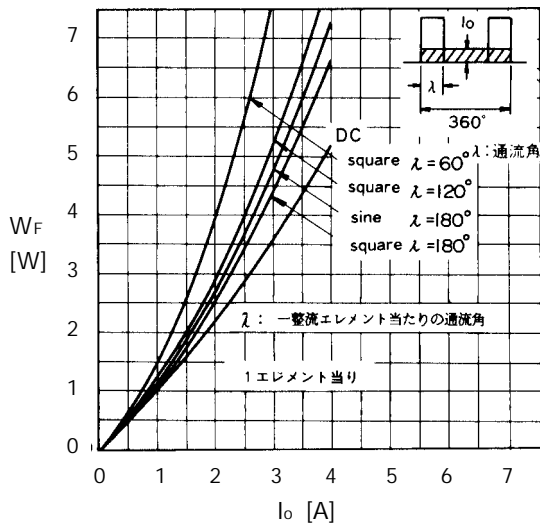
Forward characteristics



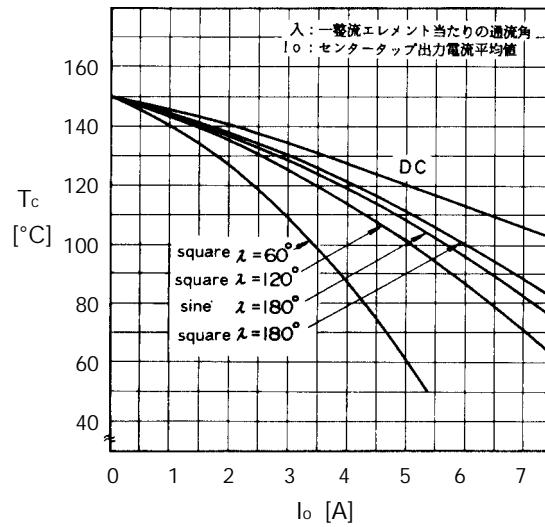
Reverse characteristics



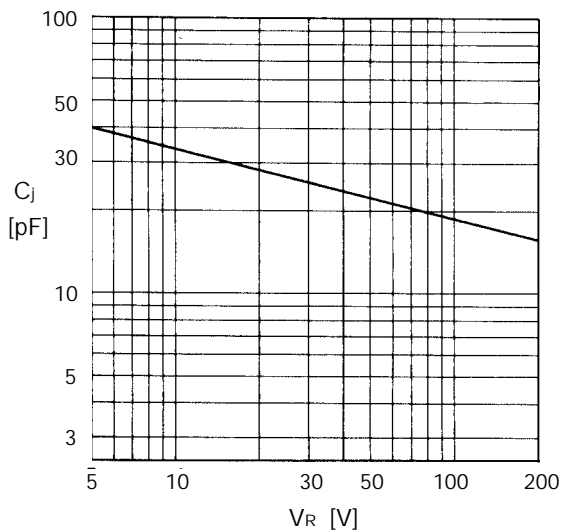
Forward power dissipation



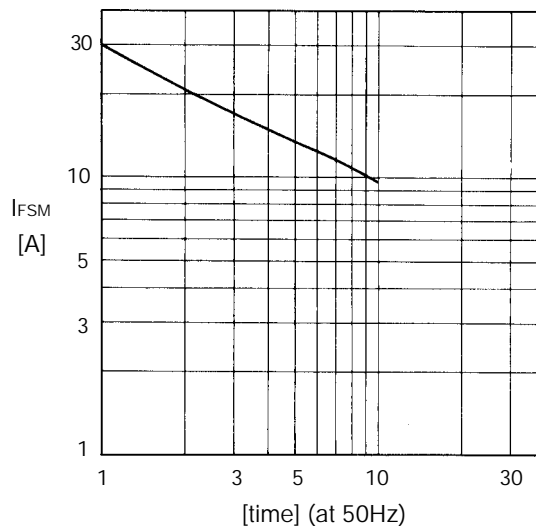
Output current-case temperature



Junction capacitance characteristics



Surge capability



Transient thermal impedance

