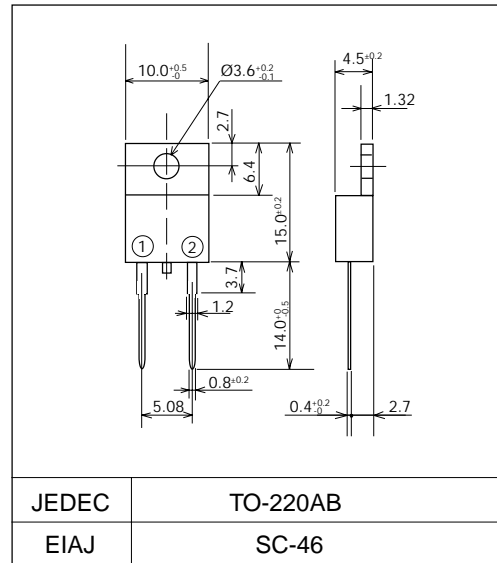


ERC20 (5A)

(200V to 800V / 5A)

FAST RECOVERY DIODE

■ Outline drawings, mm



■ Features

- High voltage by mesa design
- High reliability

■ Applications

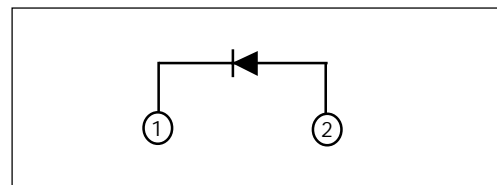
- High speed switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating				Unit
			-02	-04	-06	-08	
Repetitive peak reverse voltage	V_{RRM}		200	400	600	800	V
Non-repetitive peak reverse voltage	V_{RSM}		250	450	650	850	V
Average output current	I_o	Square wave, duty=1/2, $T_c=125^\circ\text{C}$	5				A
Surge current	I_{FSM}	Sine wave 10ms	70				A
Operating junction temperature	T_j		-40 to +150				$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to +150				$^\circ\text{C}$

■ Connection diagram

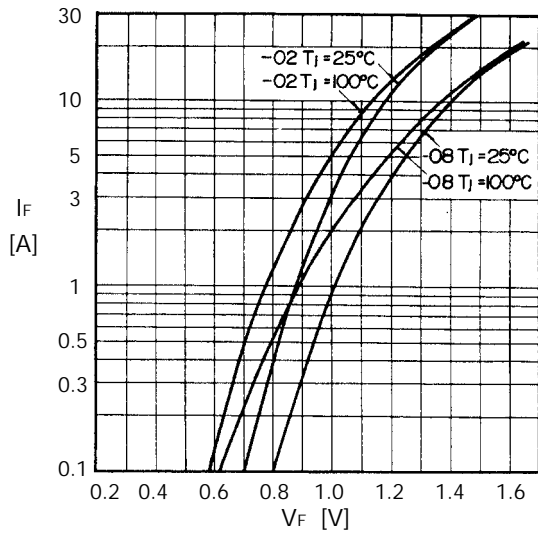


- Electrical characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

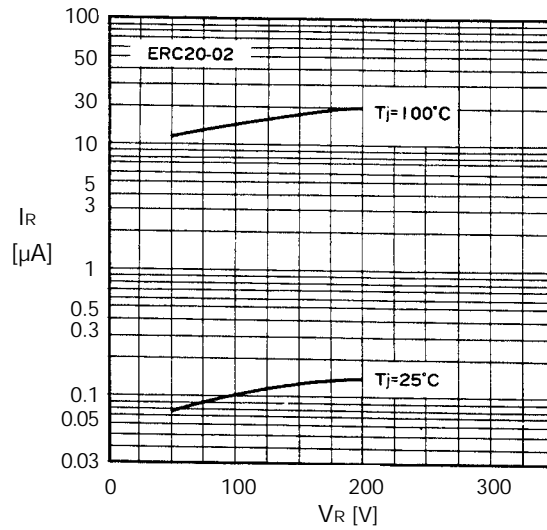
Item	Symbol	Conditions	Max.				Unit
			-02	-04	-06	-08	
Forward voltage drop	V_{FM}	$I_{FM}=5.0\text{A}$	1.3		1.5		V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	50				μA
Reverse recovery time	t_{rr}	$I_F=0.1\text{A}$, $I_R=0.1\text{A}$	400				ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.0				$^\circ\text{C/W}$

■ Characteristics

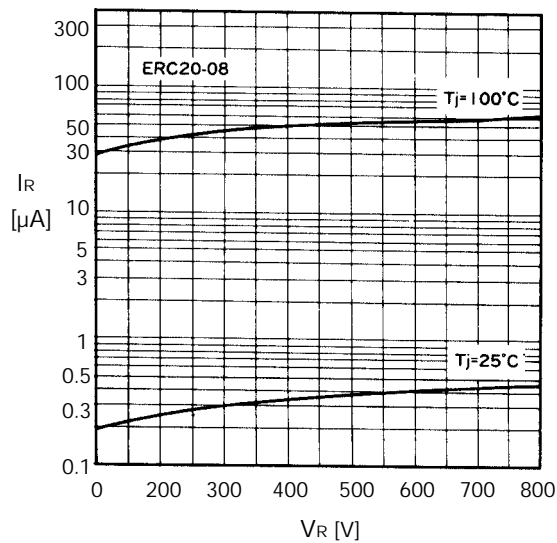
Forward characteristics



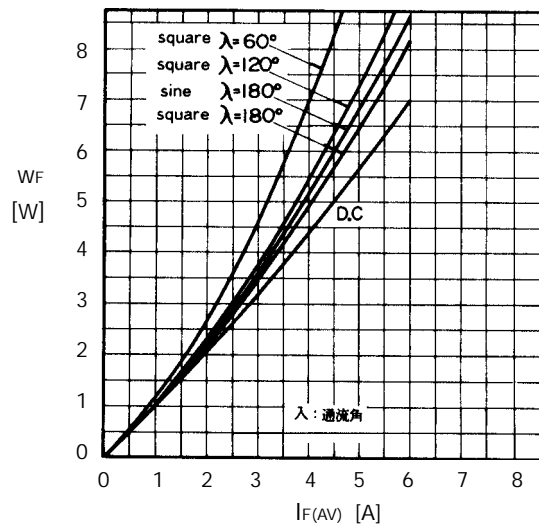
Reverse characteristics



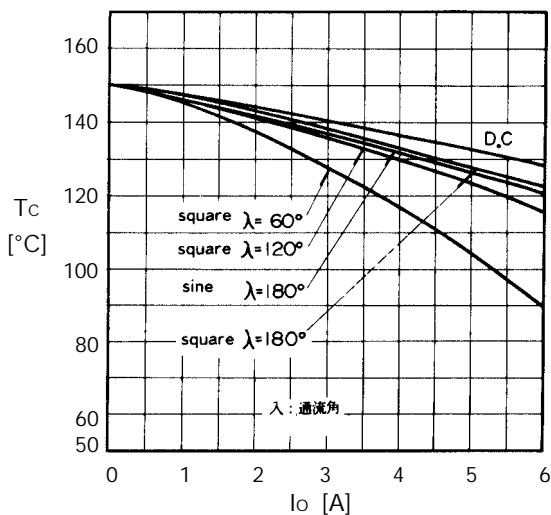
Reverse characteristics



Forward power dissipation



Output current-case temperature



Junction capacitance characteristics

