

ERC20M (5A)

(200V to 800V / 5A)

FAST RECOVERY DIODE

Features

- Insulated package fully molding
- High voltage by mesa design
- High reliability

Applications

- High speed switching

Maximum ratings and characteristics

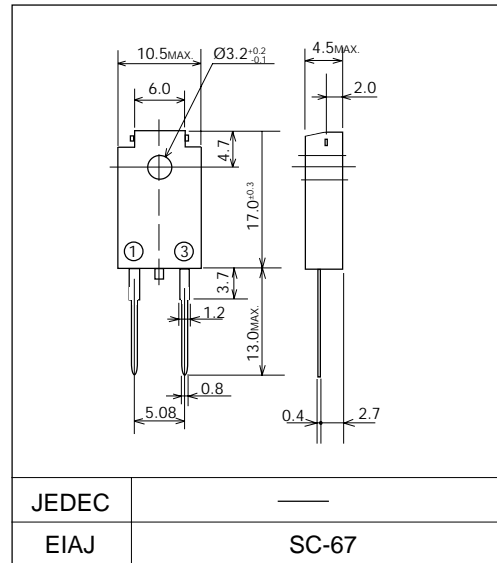
- Absolute maximum ratings

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, $T_c=125^{\circ}C$	5				A
Surge current	I_{FSM}	Sine wave 10ms	70				A
Operating junction temperature	T_j		-40 to +150				$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150				$^{\circ}C$

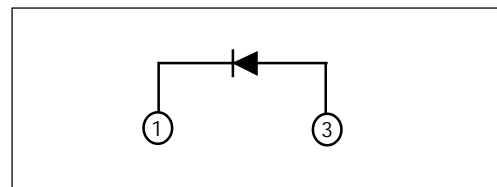
- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Conditions	Max.				Unit
			-02	-04	-06	-08	
Forward voltage drop	V_{FM}	$I_{FM}=5.0A$	1.3		1.5		V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	50				μA
Reverse recovery time	t_{rr}	$I_F=0.1A, I_R=0.1A$	400				ns
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.5				$^{\circ}C/W$

Outline drawings, mm

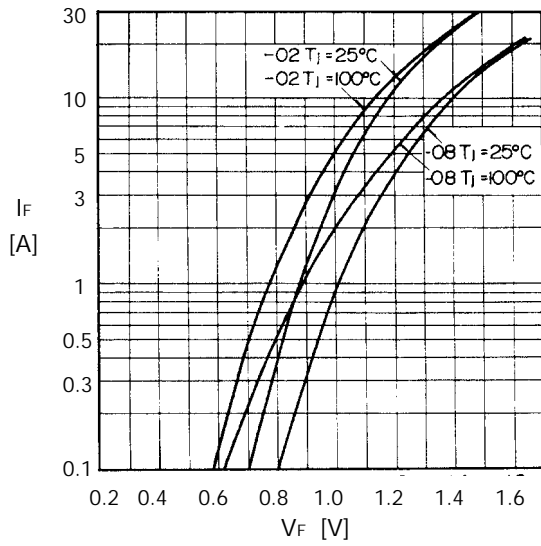


Connection diagram

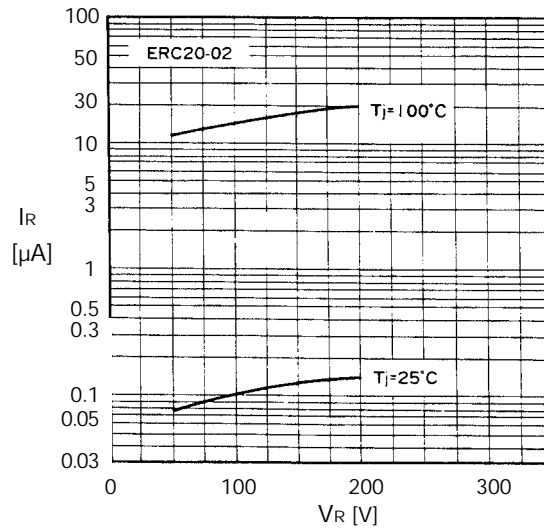


■ Characteristics

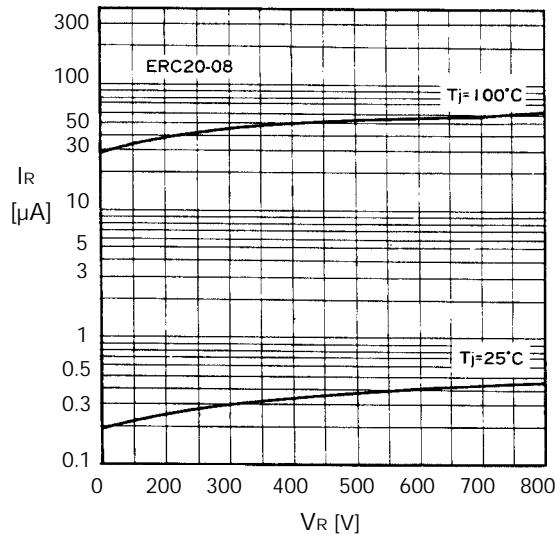
Forward characteristics



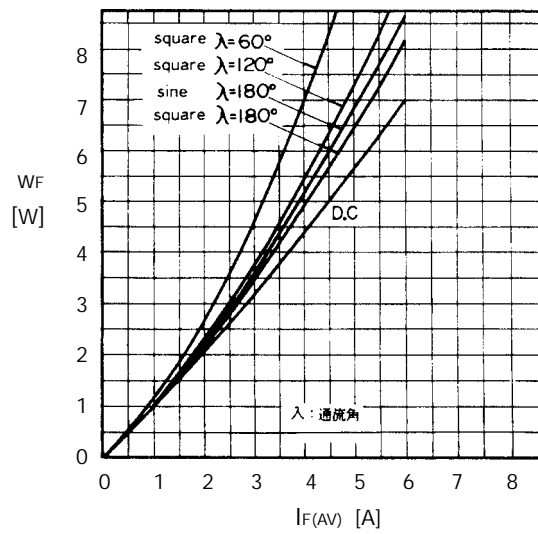
Reverse characteristics



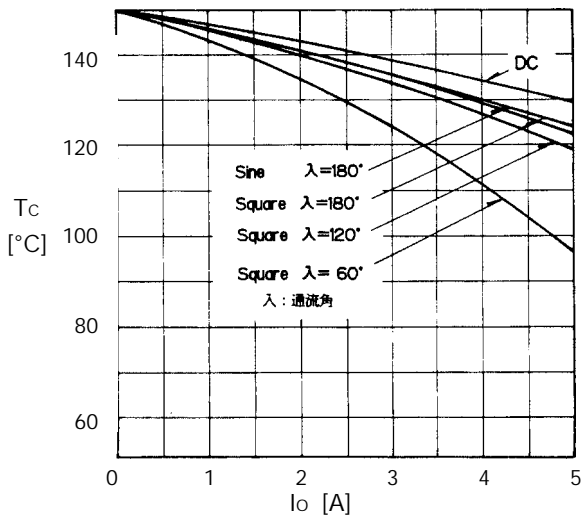
Reverse characteristics



Forward power dissipation



Output current-case temperature



Junction capacitance characteristics

