

SPECIFICATION

DEVICE NAME : SILICON DIODE
 TYPE NAME : ERW02-060
 SPEC. No. :
 DATE :

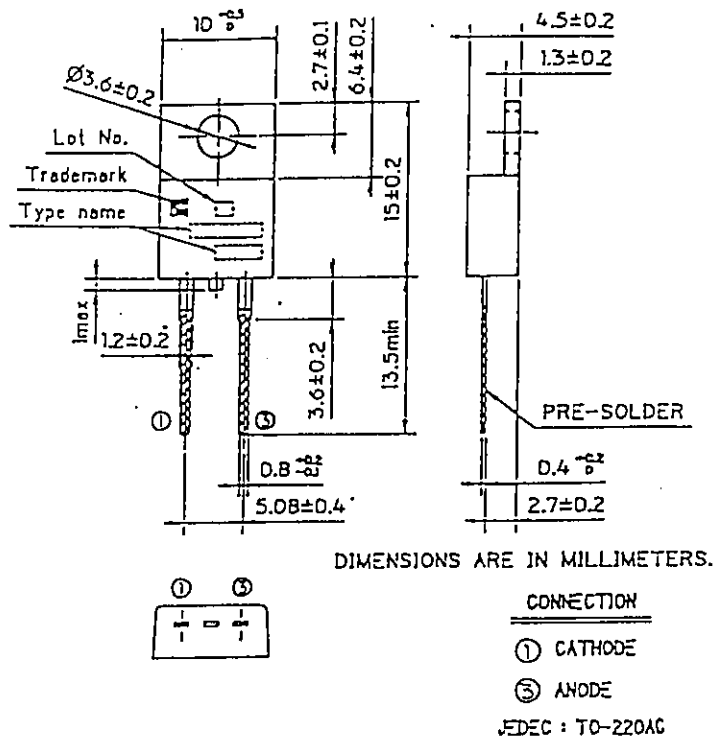
Fuji Electric Co.,Ltd.

This Specification is subject to change without notice.

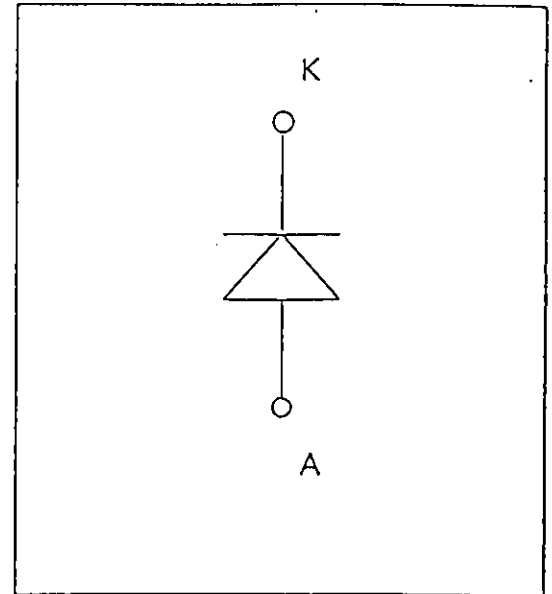
	DATE	NAME	APPROVED		Fuji Electric Co.,Ltd.		
DRAWN					DWG.NO.	1/6	0
CHECKED							

E R W 0 2 — 0 6 0

1. Outline Drawing



2. Equivalent circuit



3. Absolute maximum ratings ($T_c=25^\circ\text{C}$)

Items	Symbols	Conditions	Ratings	Units
Repetitive Reverse Voltage	V_{RRM}	—	600	V
Repetitive peak surge current	I_{FM}	20kHz Duty50% Squ. wave	$T_c=100^\circ\text{C}$ 10	A
			$T_c=25^\circ\text{C}$ 19	A
Average rectified forward current	$I_{F(AV)}$	D C	10	A
Non-repetitive peak surge current	I_{FSM}	Pulse10ms, sin wave	63	A
Maximam Power Dissipaion	P_o	—	35	W
Operating Temperature	T_j	—	+150	$^\circ\text{C}$
Storage Temperature	T_{stg}	—	-40 ~ +150	$^\circ\text{C}$
Mounting Screw Torque	—	—	50	N · cm

4. Electrical Characteristics (at Tc=25°C unless otherwise specified)

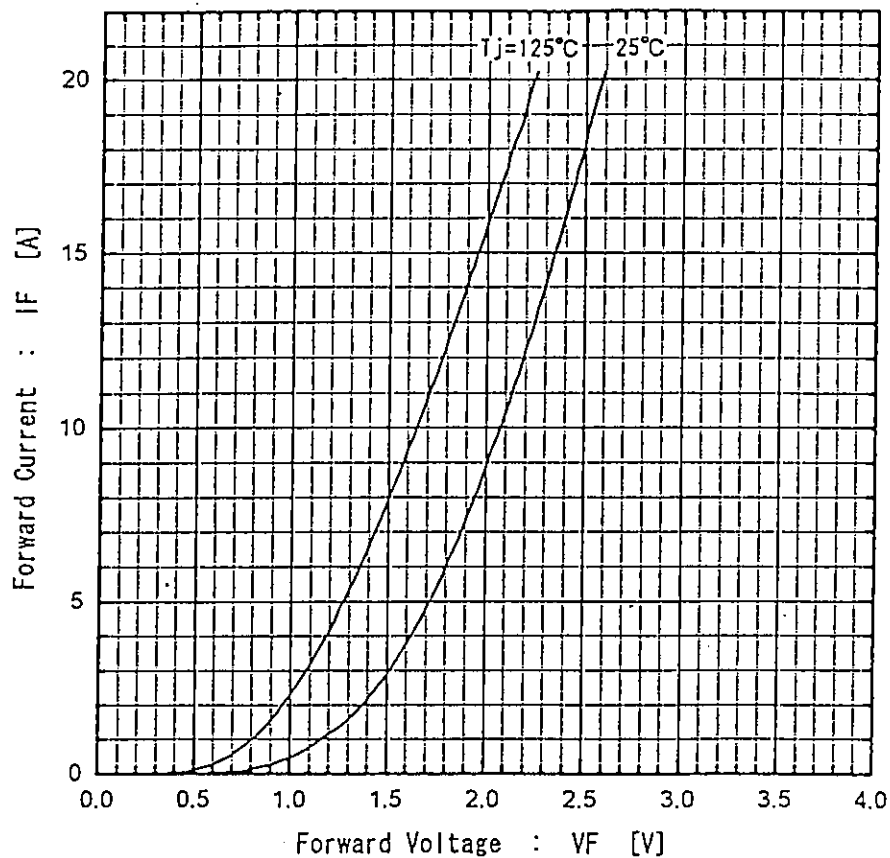
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Reverse Current	I_R	—	—	1.0	$V_R = 600 \text{ V}$	mA
forward voltage	V_F	—	—	3.0	$I_F = 10 \text{ A}$	V
Reverse recovery time	t_{rr}	—	—	0.3	$I_F = 10 \text{ A}, V_R = 200 \text{ V}$ $di/dt = 100 \text{ A}/\mu\text{s}$	μs

5. Thermal resistance characteristics

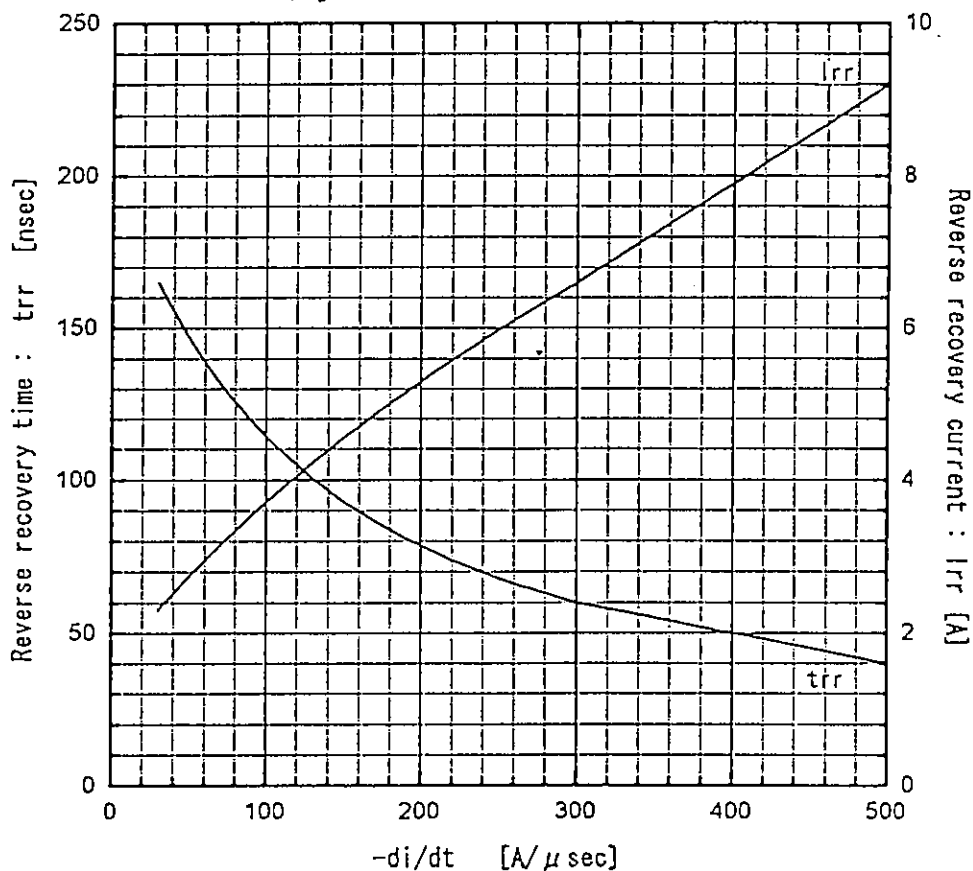
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Thermal resistance	$R_{th(j-c)}$	—	—	3.57	junction to case	°C/W

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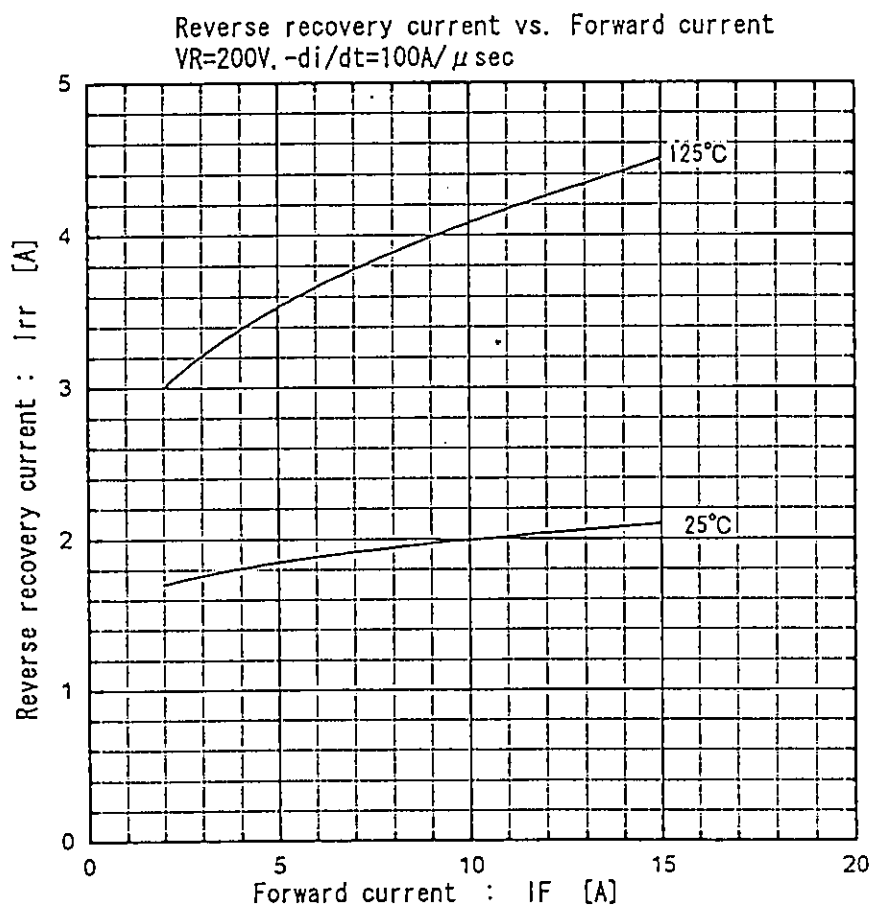
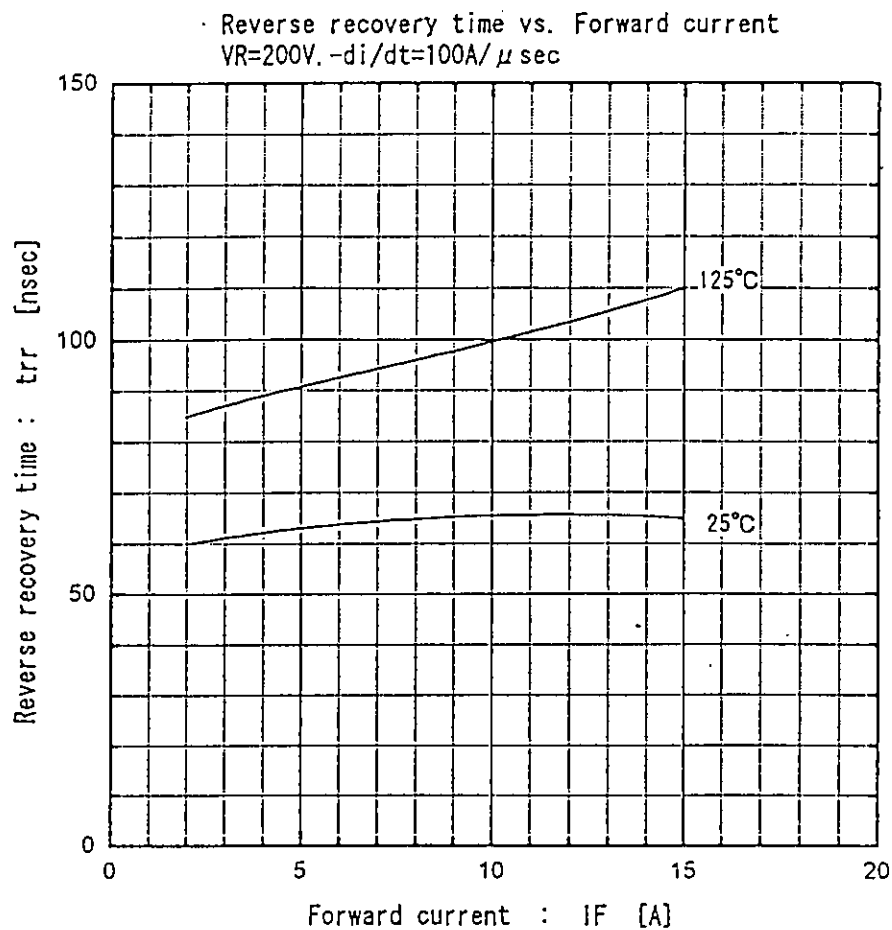
Forward voltage vs. Forward current



Reverse recovery characteristics vs. $-di/dt$
IF=10A, $T_j=125^\circ\text{C}$

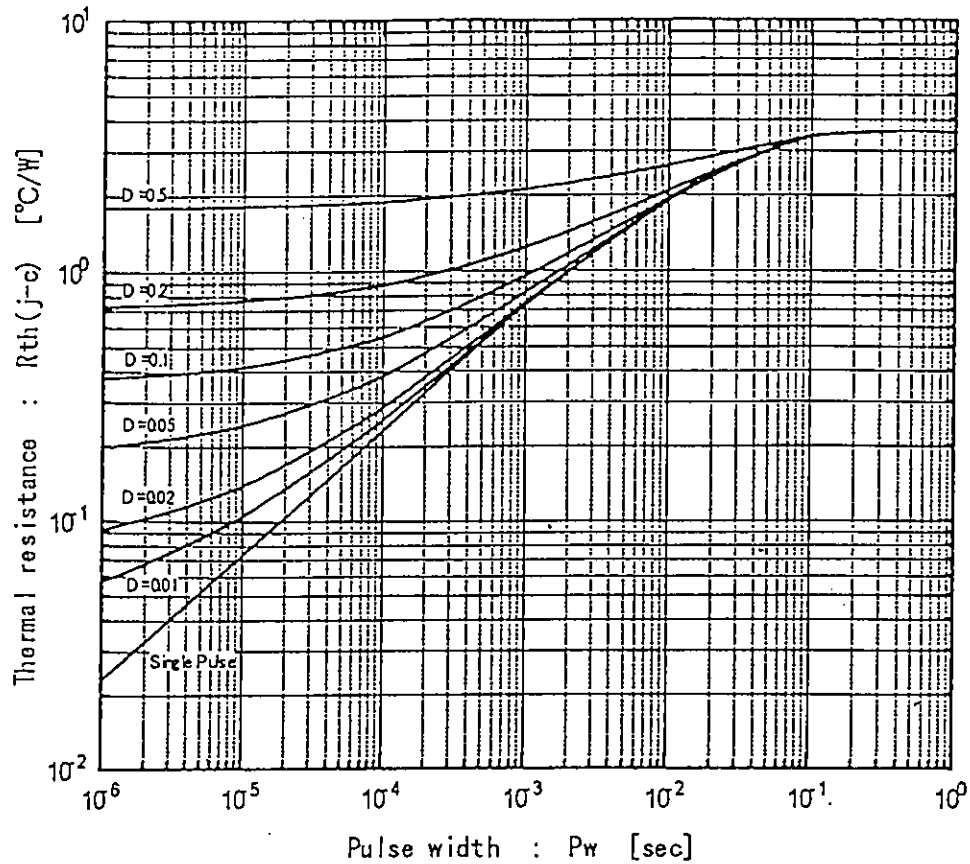


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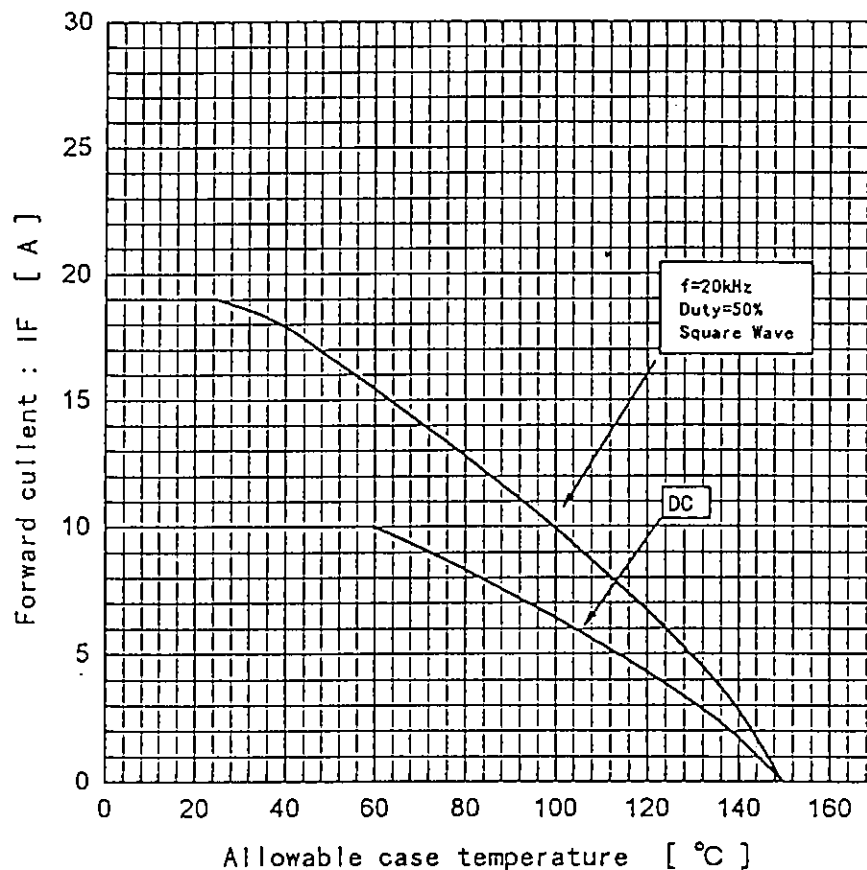


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Transient thermal resistance



Forward current vs. Max. allowable case temperature



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