

SPECIFICATION

DEVICE NAME : SILICON DIODE

TYPE NAME : ERW10-120

SPEC. No. :

DATE :

Fuji Electric Co.,Ltd.

This Specification is subject to change without notice.

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	DRAWN CHECKED				DWG.NO.

4. Electrical Characteristics (at $T_c=25^{\circ}\text{C}$ unless otherwise specified)

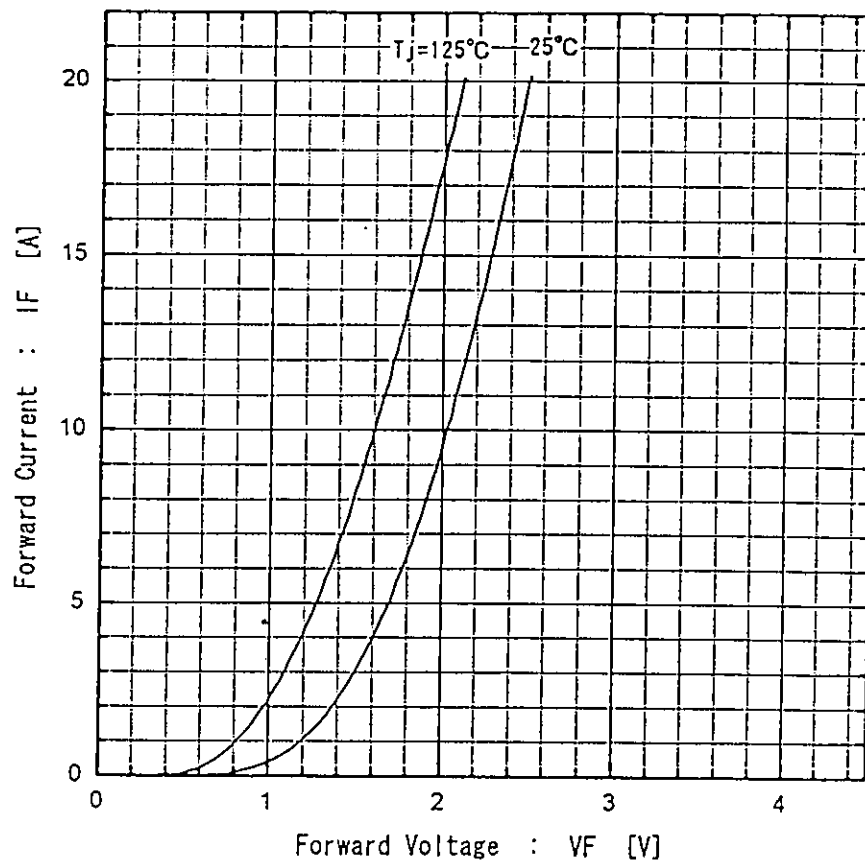
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Reverse Current	I_R	—	—	1.0	$V_R = 1200\text{V}$	mA
forward voltage	V_F	—	—	3.0	$I_F = 10\text{A}$	V
Reverse recovery time	t_{rr}	—	—	0.3	$I_F = 10\text{A}$, $V_R = 200\text{V}$ $di/dt = 100\text{A}/\mu\text{s}$	μs

5. Thermal resistance characteristics

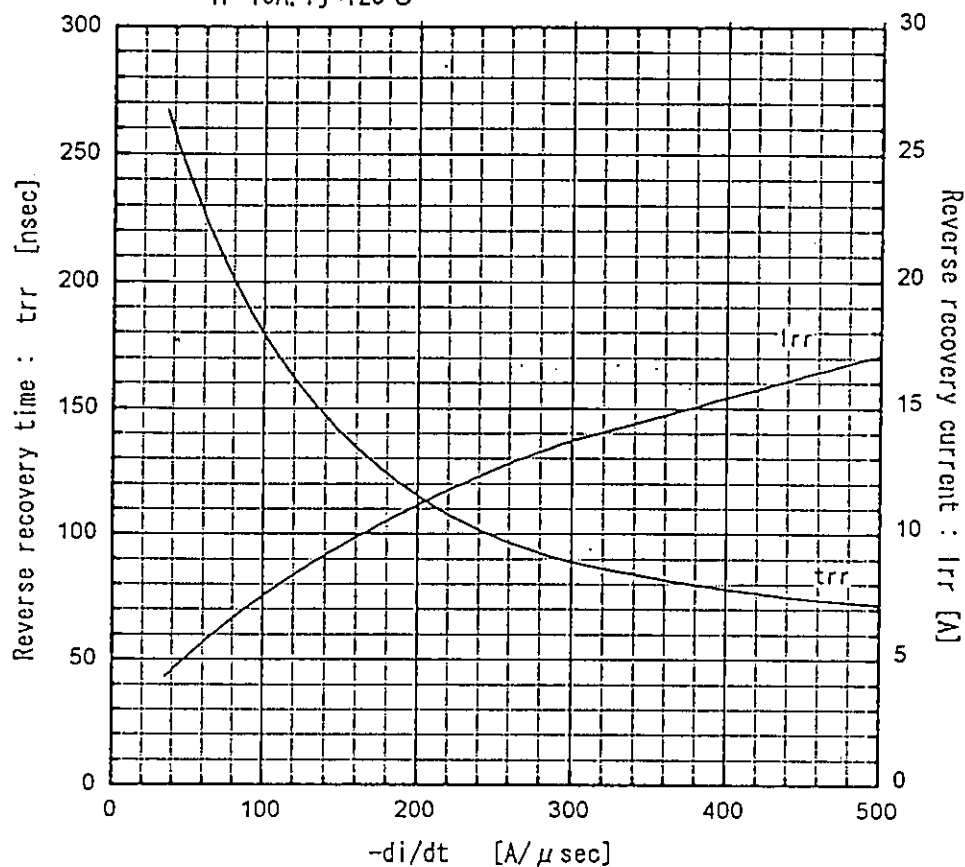
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Thermal resistance	$R_{th(j-c)}$	—	—	2.08	junction to case	$^{\circ}\text{C}/\text{W}$

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Forward voltage vs. Forward current

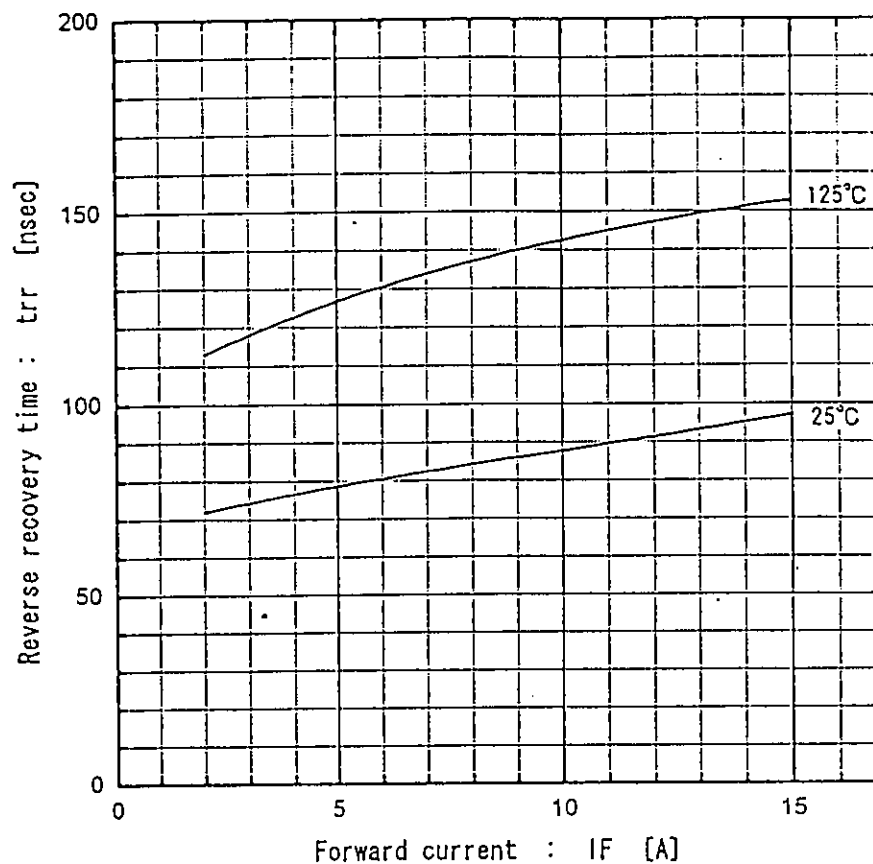


Reverse recovery characteristics vs. $-di/dt$
IF=10A, Tj=125°C

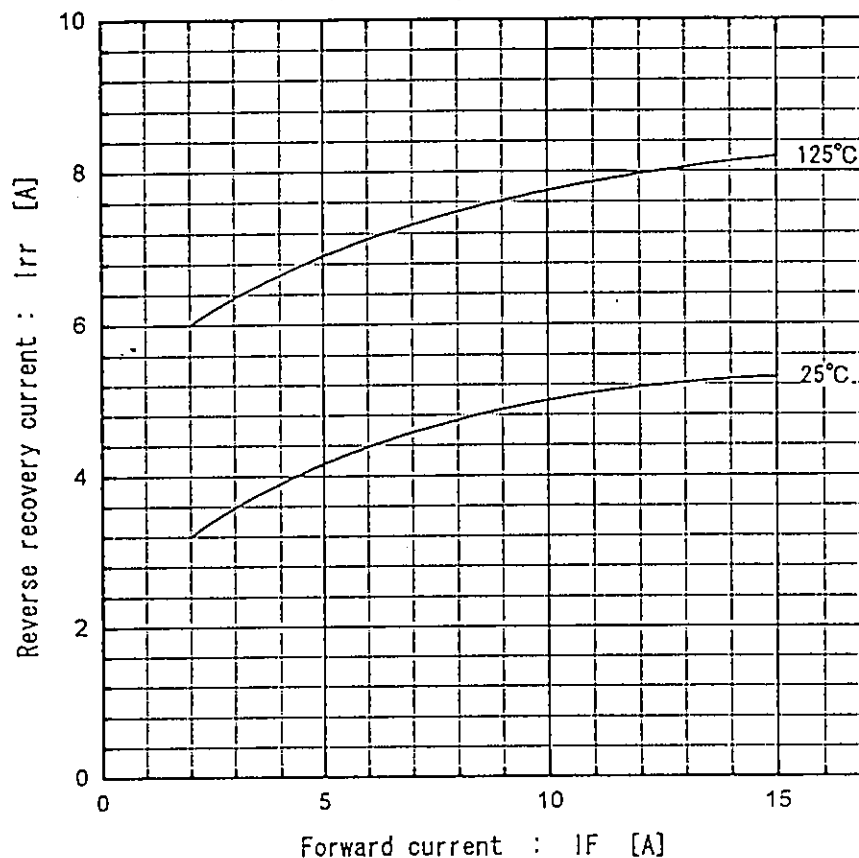


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Reverse recovery time vs. Forward current
 $V_R=200V, -di/dt=100A/\mu sec$



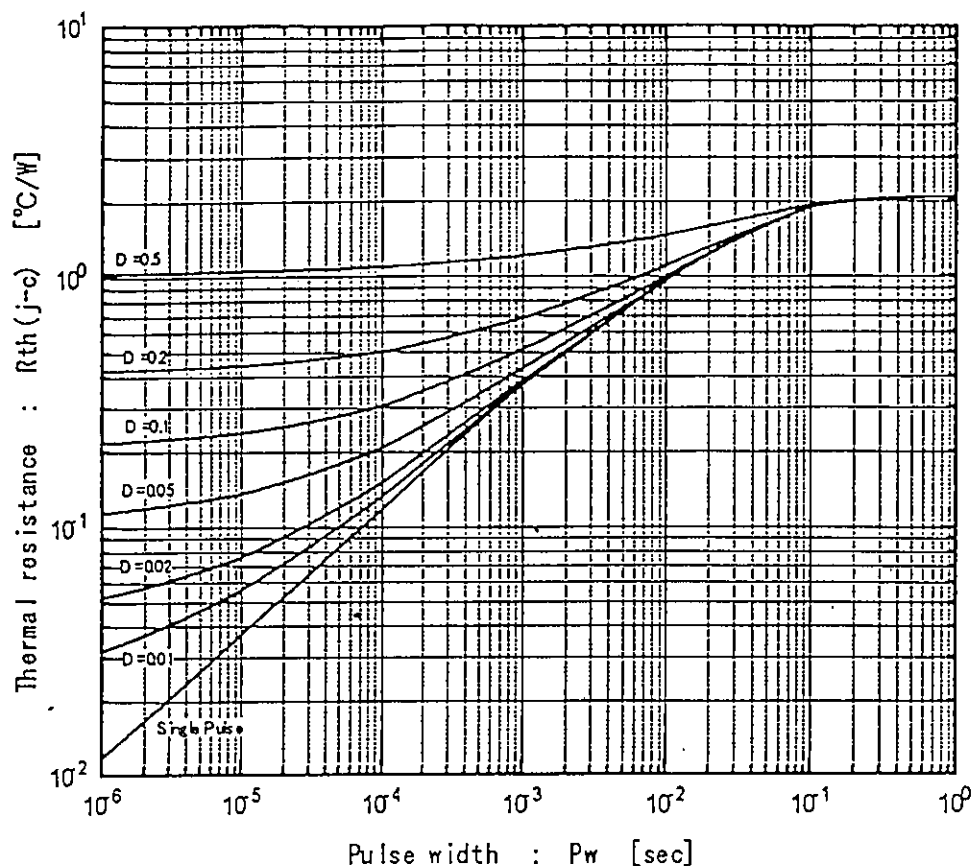
Reverse recovery current vs. Forward current
 $V_R=200V, -di/dt=100A/\mu sec$



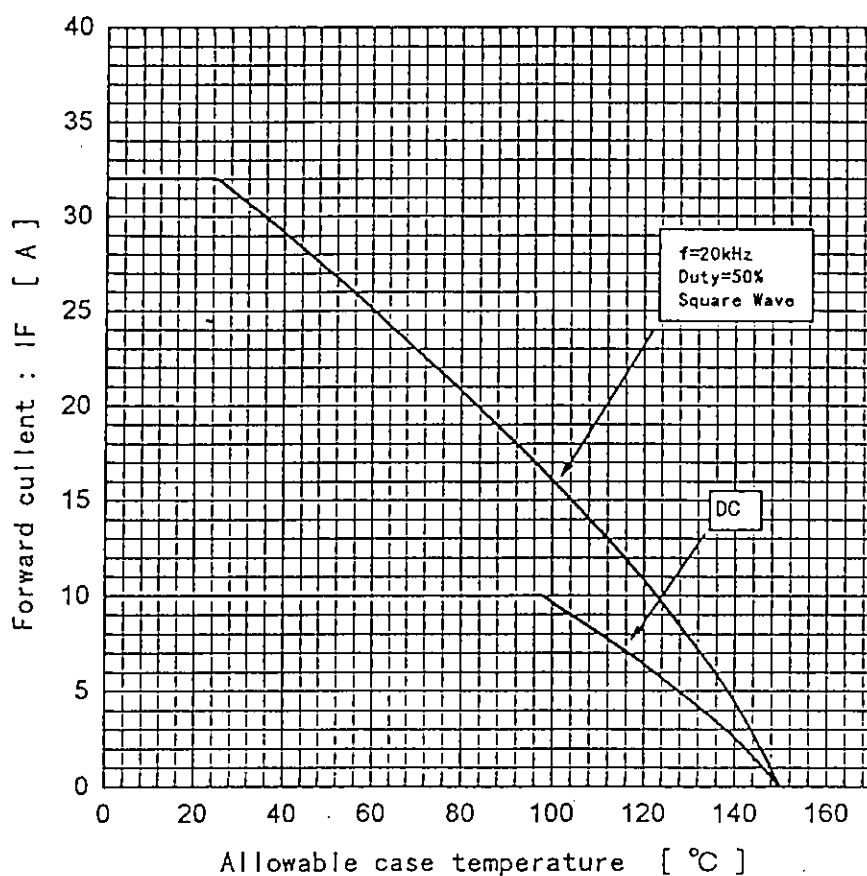
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Transient thermal resistance



Forward current vs. Max. allowable case temperature



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