

# SPECIFICATION

DEVICE NAME : SILICON DIODE  
TYPE NAME : ERW11-120  
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	a
CHECKED	- -					



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

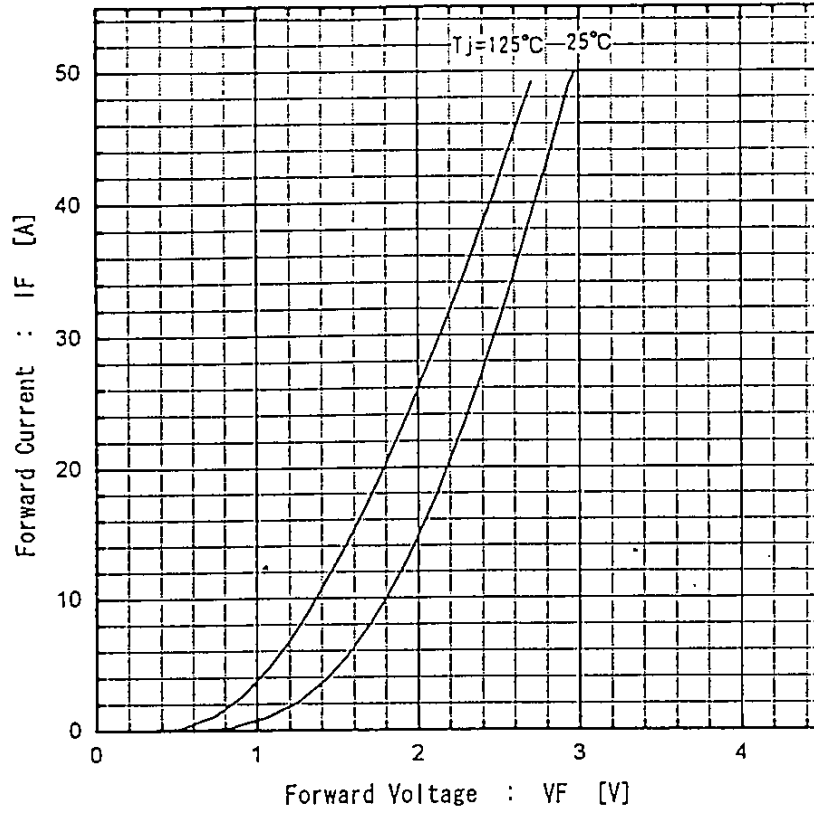
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Reverse Current	$I_R$	—	—	1.0	$V_R = 1200\text{V}$	mA
forward voltage	$V_F$	—	—	3.0	$I_F = 15\text{A}$	V
Reverse recovery time	$t_{rr}$	—	—	0.3	$I_F=15\text{A}, V_R=200\text{V}$ $di/dt=100\text{A}/\mu\text{s}$	$\mu\text{S}$

5. Thermal resistance characteristics

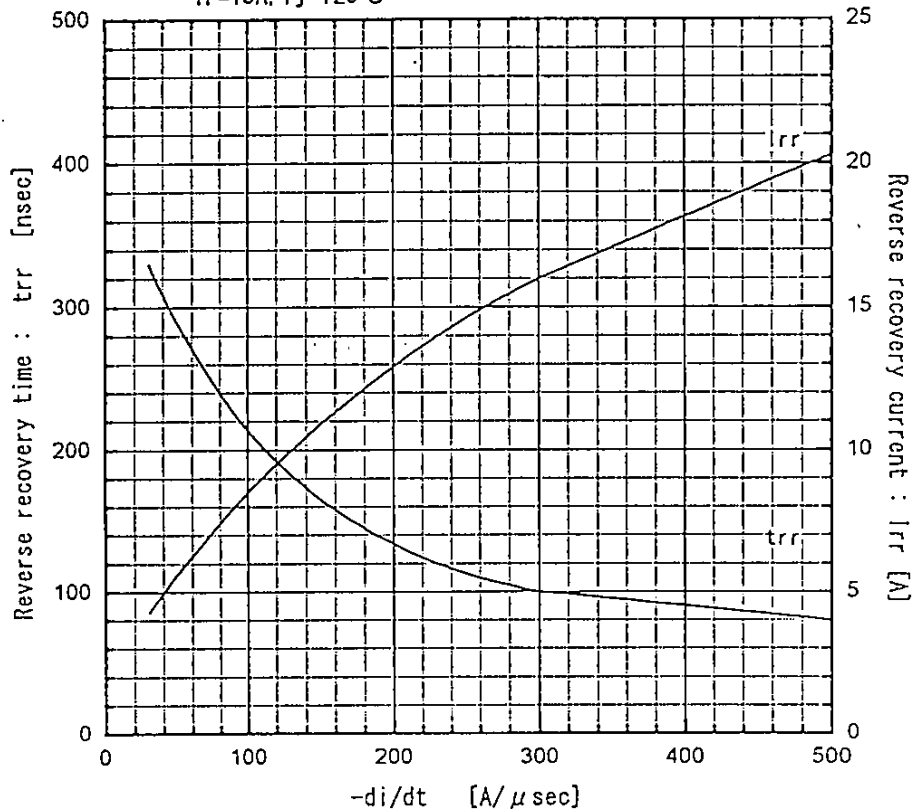
Items	Symbols	Characteristics			Conditions	Unit
		min.	typ.	max.		
Thermal resistance	$R_{th(j-c)}$	—	—	1.39	junction to case	$^\circ\text{C}/\text{W}$

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Forward voltage vs. Forward current



Reverse recovery characteristics vs.  $-di/dt$   
IF=15A, Tj=125°C



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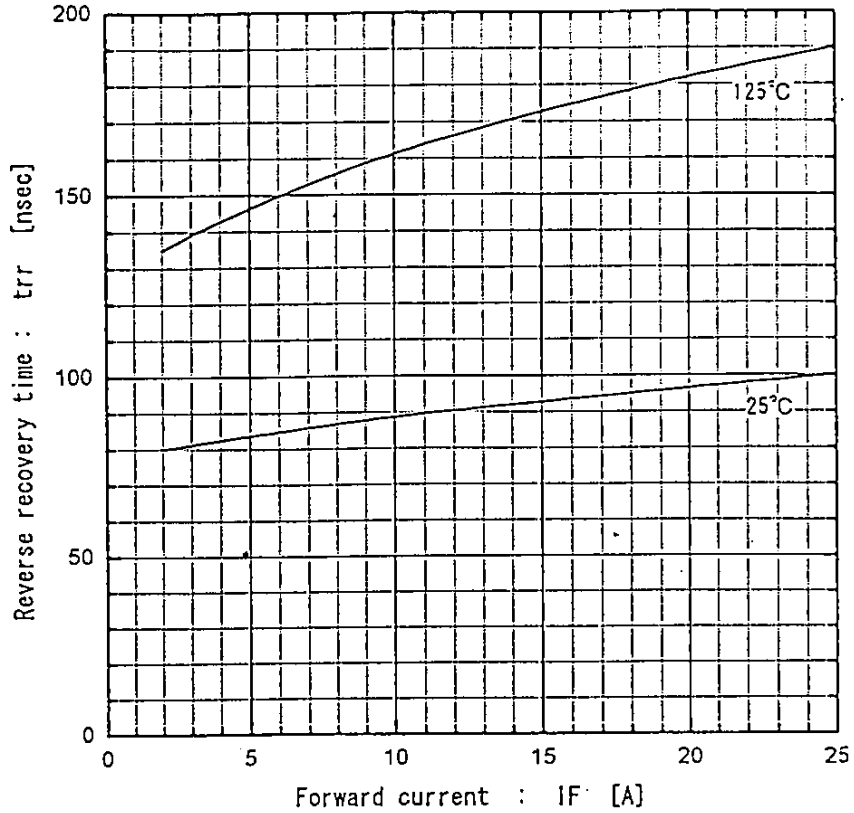
DWG. NO.

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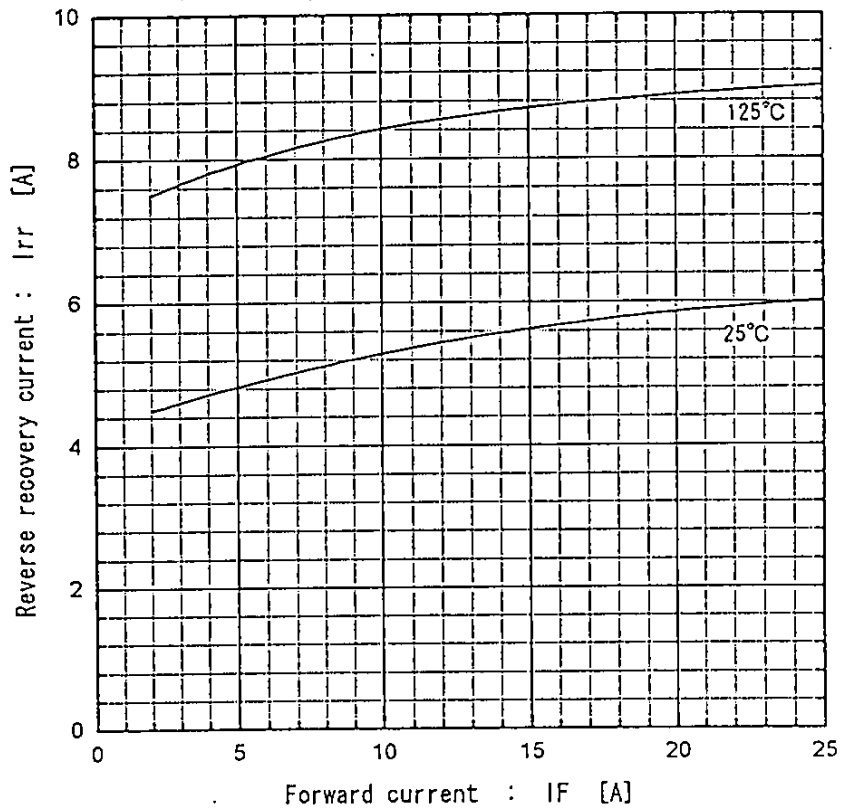
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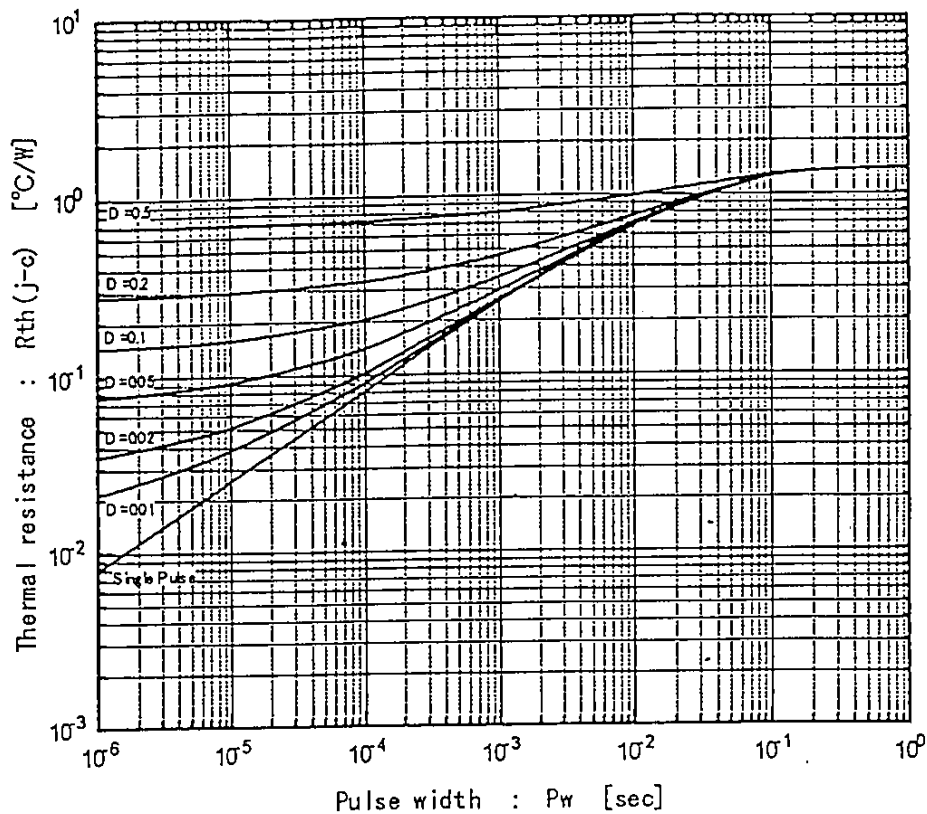
Reverse recovery time vs. Forward current  
 $V_R=200V, -di/dt=100A/\mu sec$



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



ERW11-120  
Transient thermal resistance



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Forward current vs. Max. allowable case temperature

