

SPECIFICATION

Device Name : SILICON DIODE

Type Name : YG811S04R

Spec. No. :

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Matsumoto Factory

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H04-004-07

1. SCOPE

This specification provides the ratings and the test requirement for FUJI SILICON DIODE YG811S04R

2. OUT VIEW · MARKING · MOLDING RESIN

(1) Out view is shown

(2) Marking is shown

It is marked to type name or abbreviated type name, polarity and Lot No

(3) Molding resin

Epoxy resin UL94:94V-0

3. RATINGS

3.1 MAXIMUM RATINGS

ITEM	SYMBOL	CONDITIONS	RATINGS	UNITS
Repetitive peak surge reverse voltage	V_{RSM}	$t_w=500ns$, duty=1/40	48	V
Repetitive peak reverse voltage	V_{RRM}		40	V
Isolating voltage	V_{iso}	Terminals-to-Case, AC, 1min	1500	V
Average forward current	I_o	Square wave duty=1/2 $T_c=122^{\circ}C$	5	A
Non-repetitive surge current	I_{FSM}	Sine wave, 10ms	120	A
Operating junction temperature	T_j		150	$^{\circ}C$
Storage temperature	T_{stg}		-40to+150	$^{\circ}C$

3.2 ELECTRICAL CHARACTERISTICS (at $T_a=25^{\circ}C$ unless otherwise specified.)

ITEM	SYMBOL	CONDITIONS	MAXIMUM	UNITS
Forward voltage **	V_F	$I_F = 5 A$	0.55	V
Reverse current **	I_R	$V_R = V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	$^{\circ}C/W$

** Rating per element

3.3 MECHANICAL CHARACTERISTICS

Mounting torque	Recommended torque	0.3 ~ 0.5	N · m
Weight		2.0	g

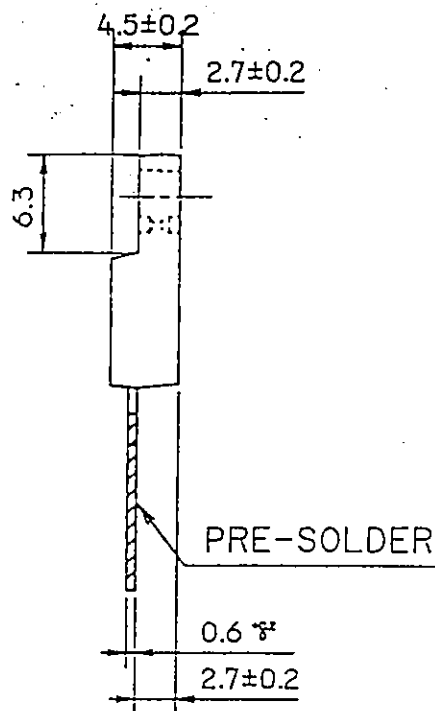
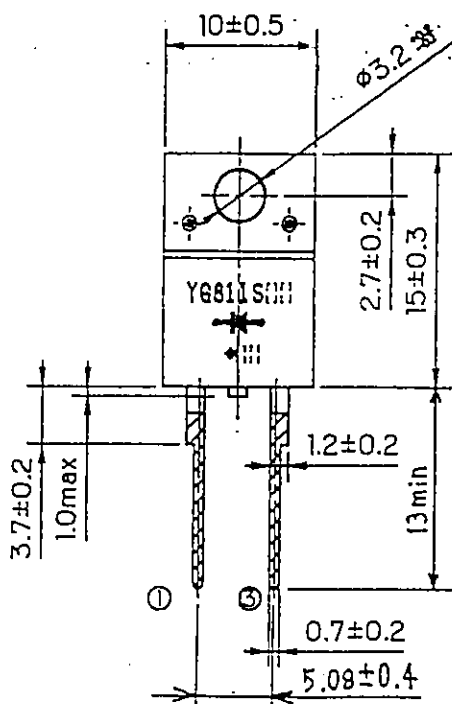
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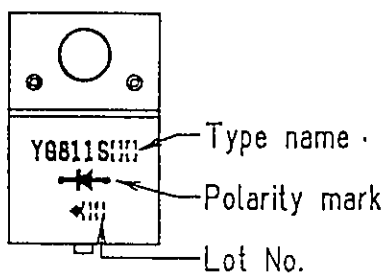
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OUT VIEW



DIMENSIONS ARE IN MILLIMETERS.

MARKING



CONNECTION

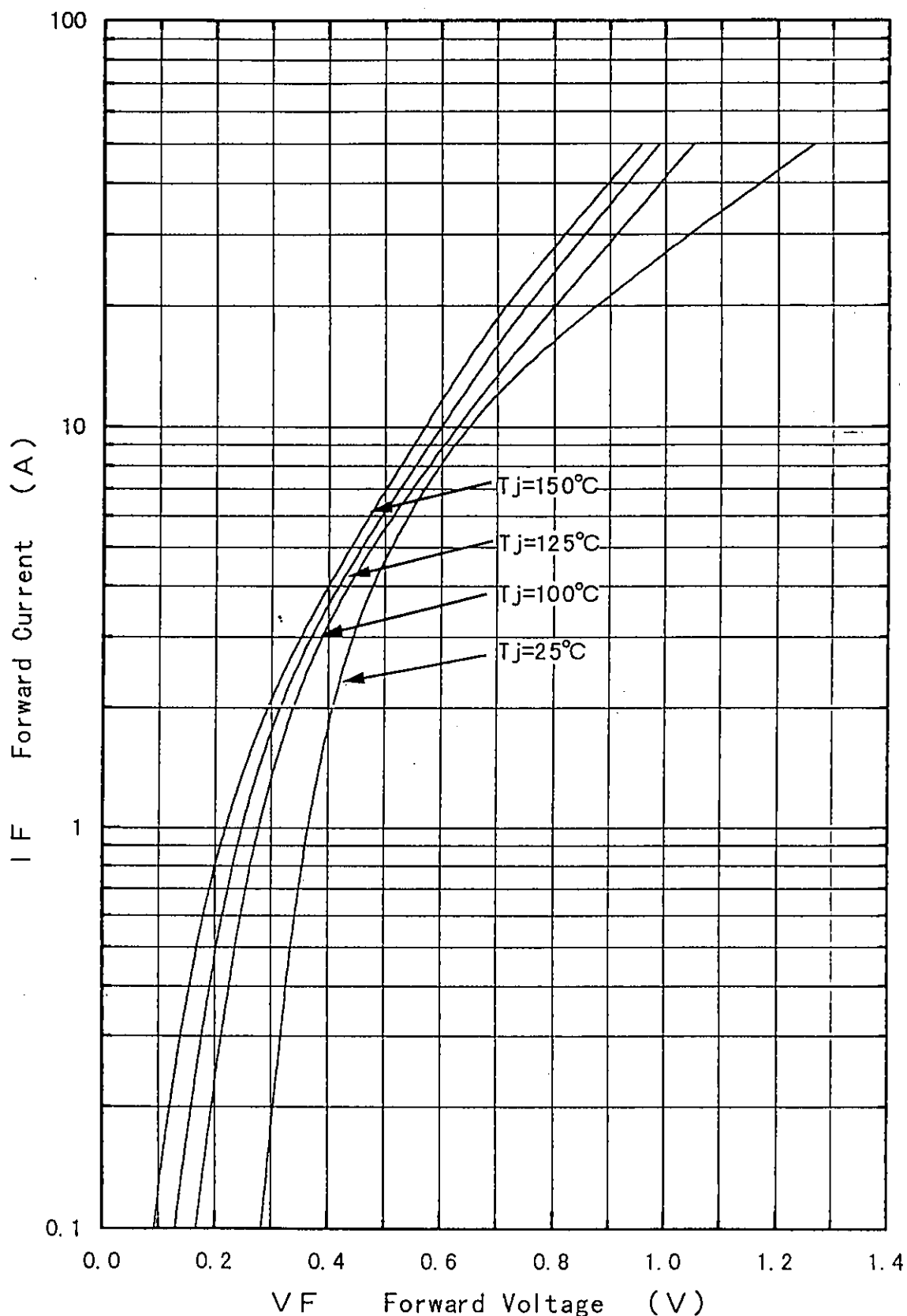


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Forward Characteristic (typ.)



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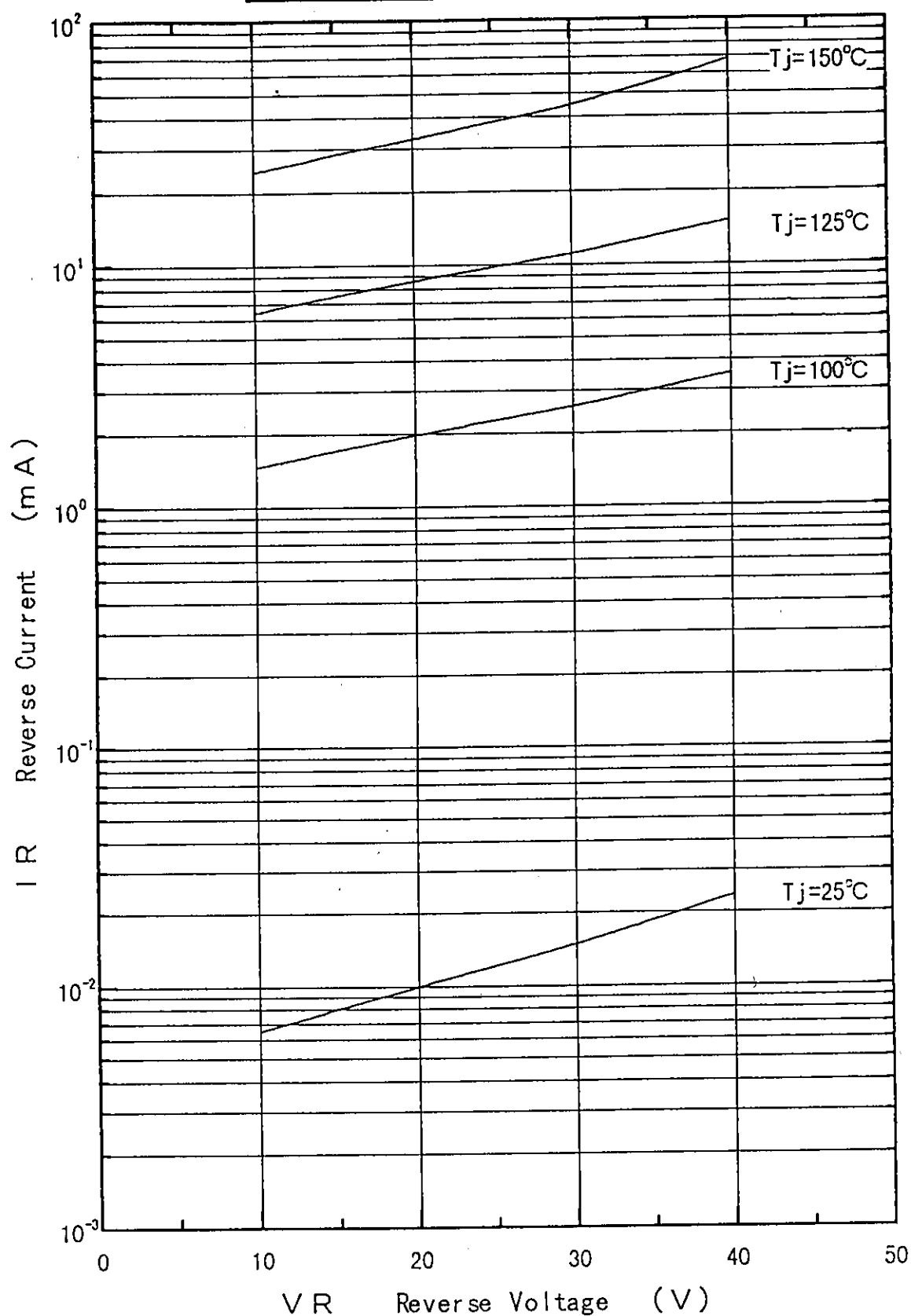
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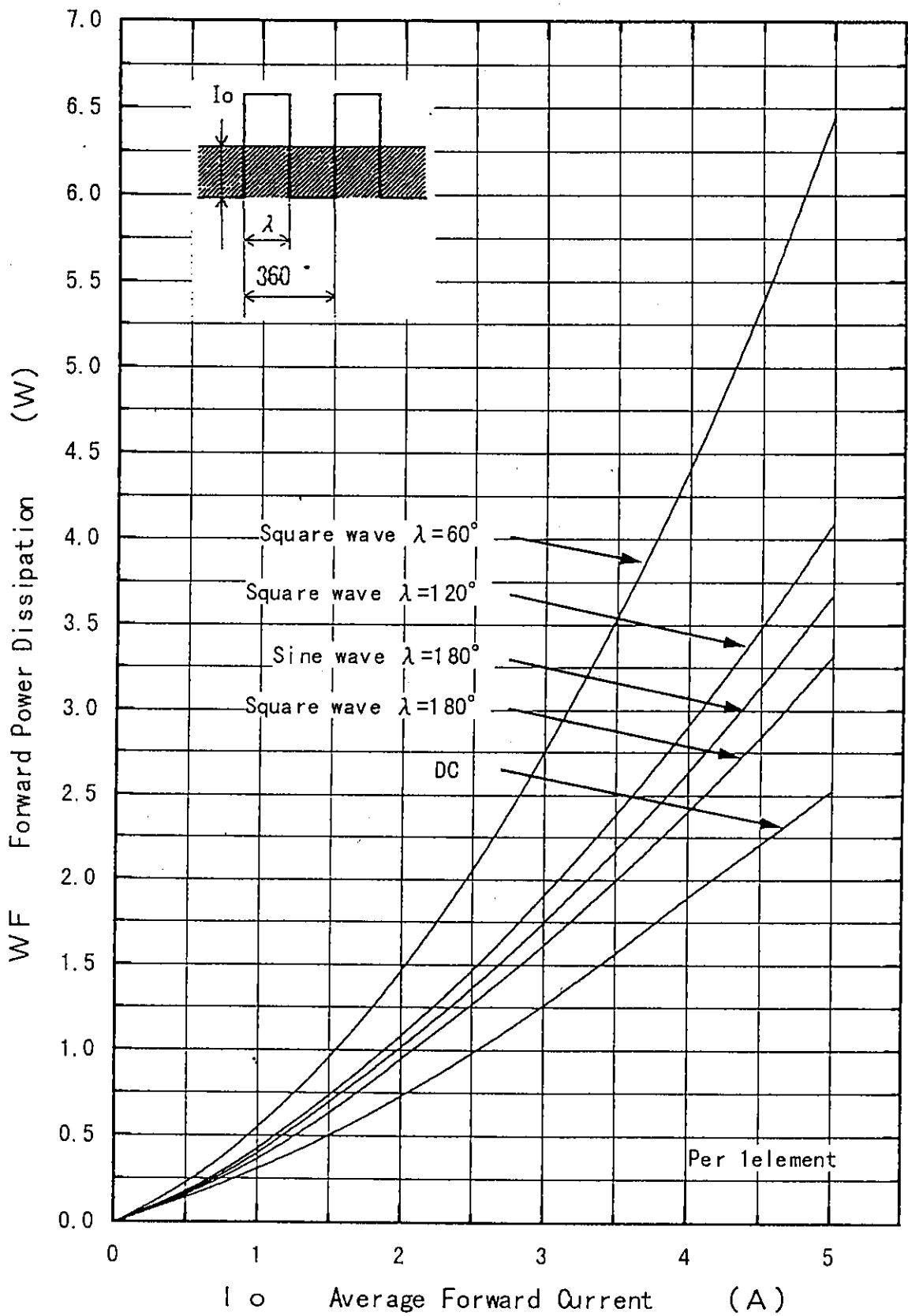
Reverse Characteristic (typ.)



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Forward Power Dissipation



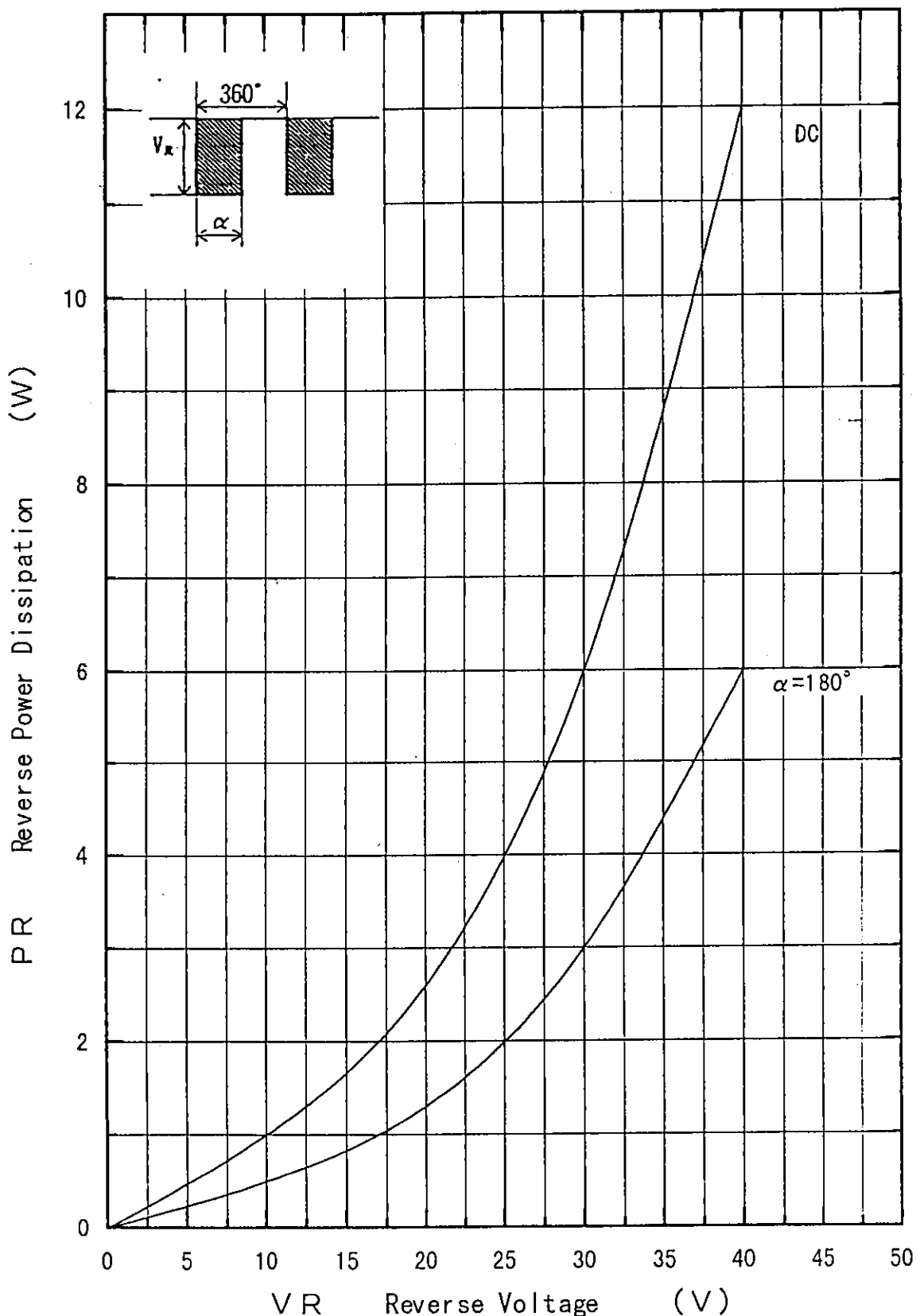
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Reverse Power Dissipation

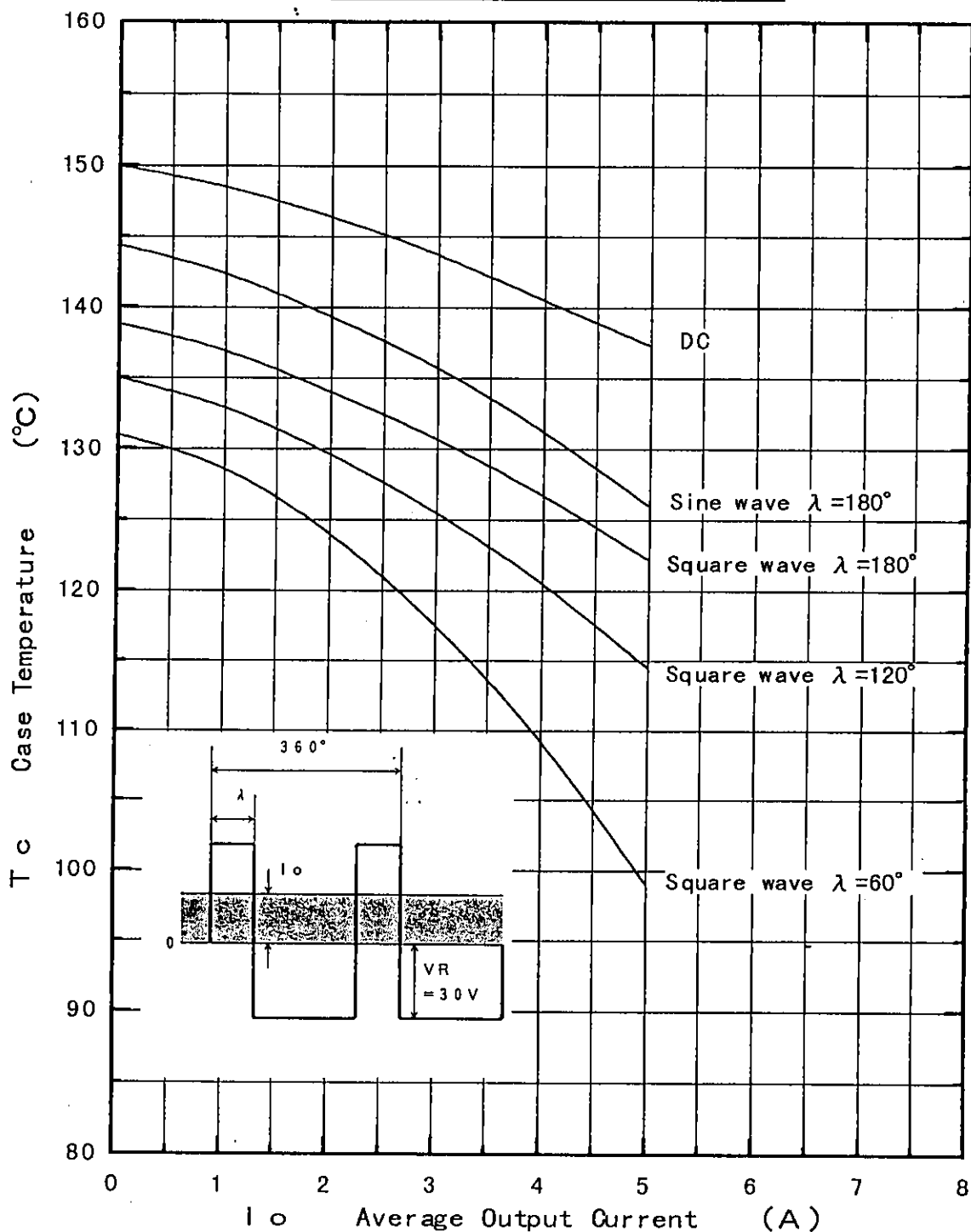


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Current Derating (I_o - T_c)



λ : Conduction angle of forward current for each rectifier element
 I_o : Output current of center-tap full wave connection

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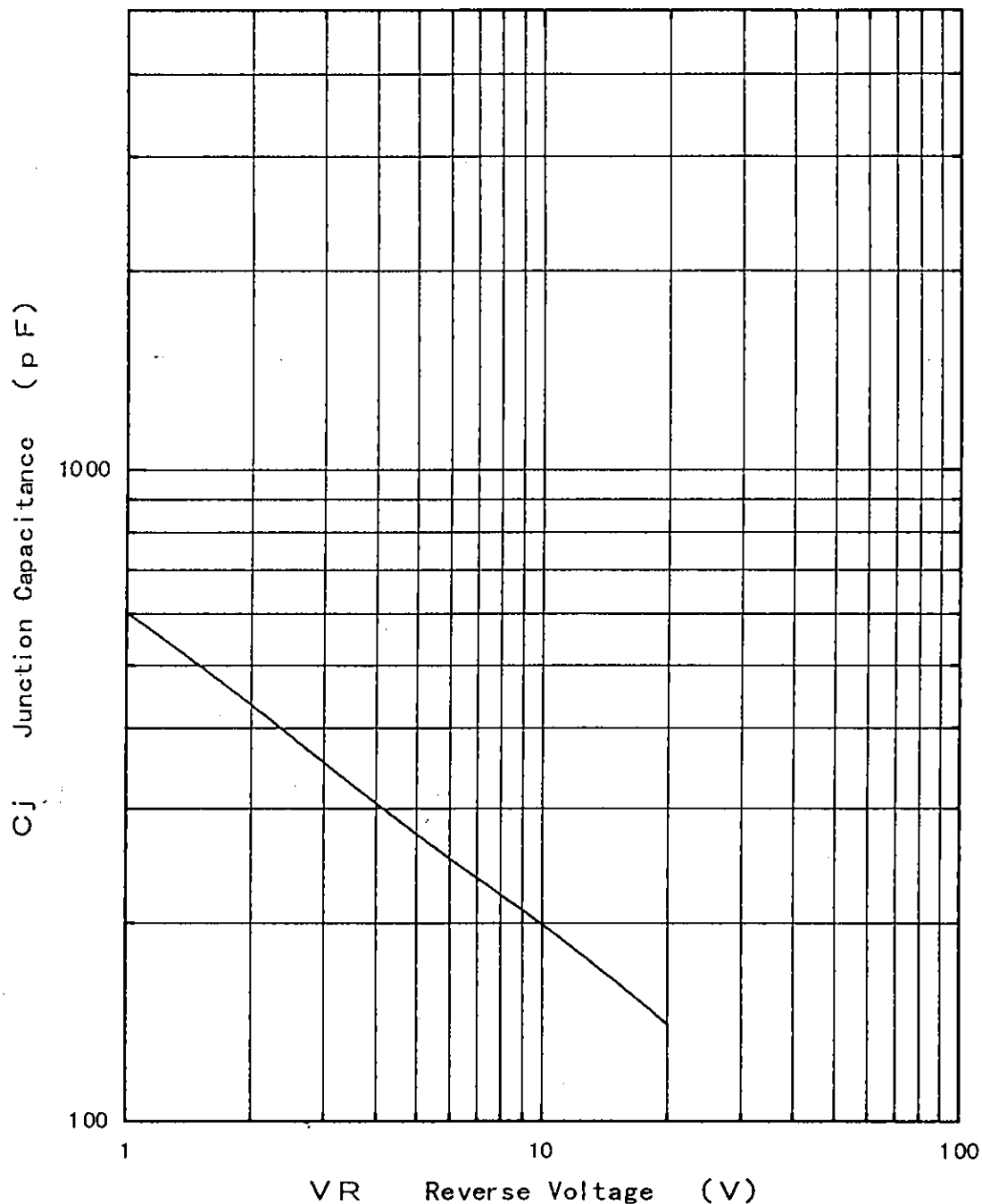
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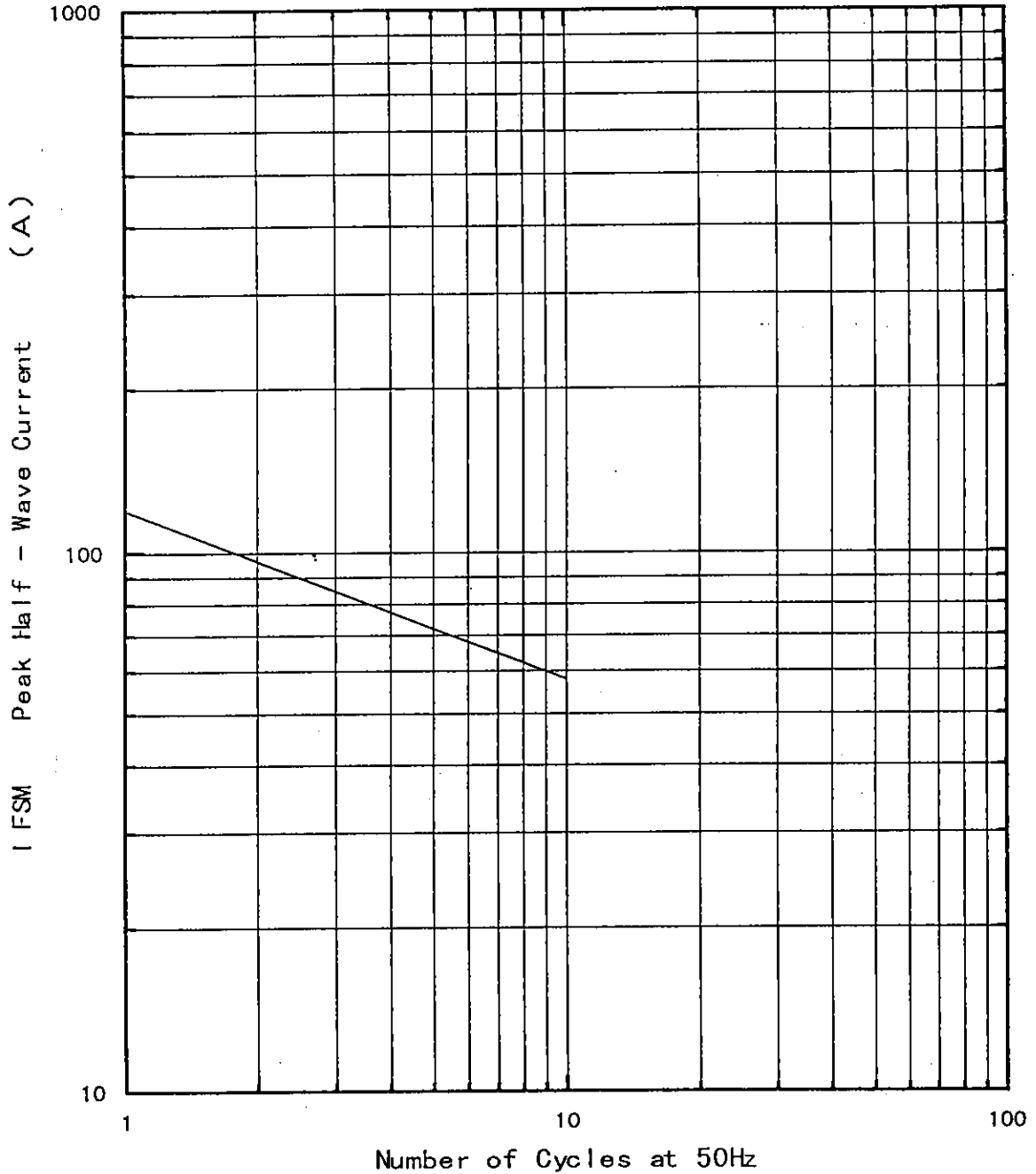
Junction Capacitance Characteristic (typ.)



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Surge Capability



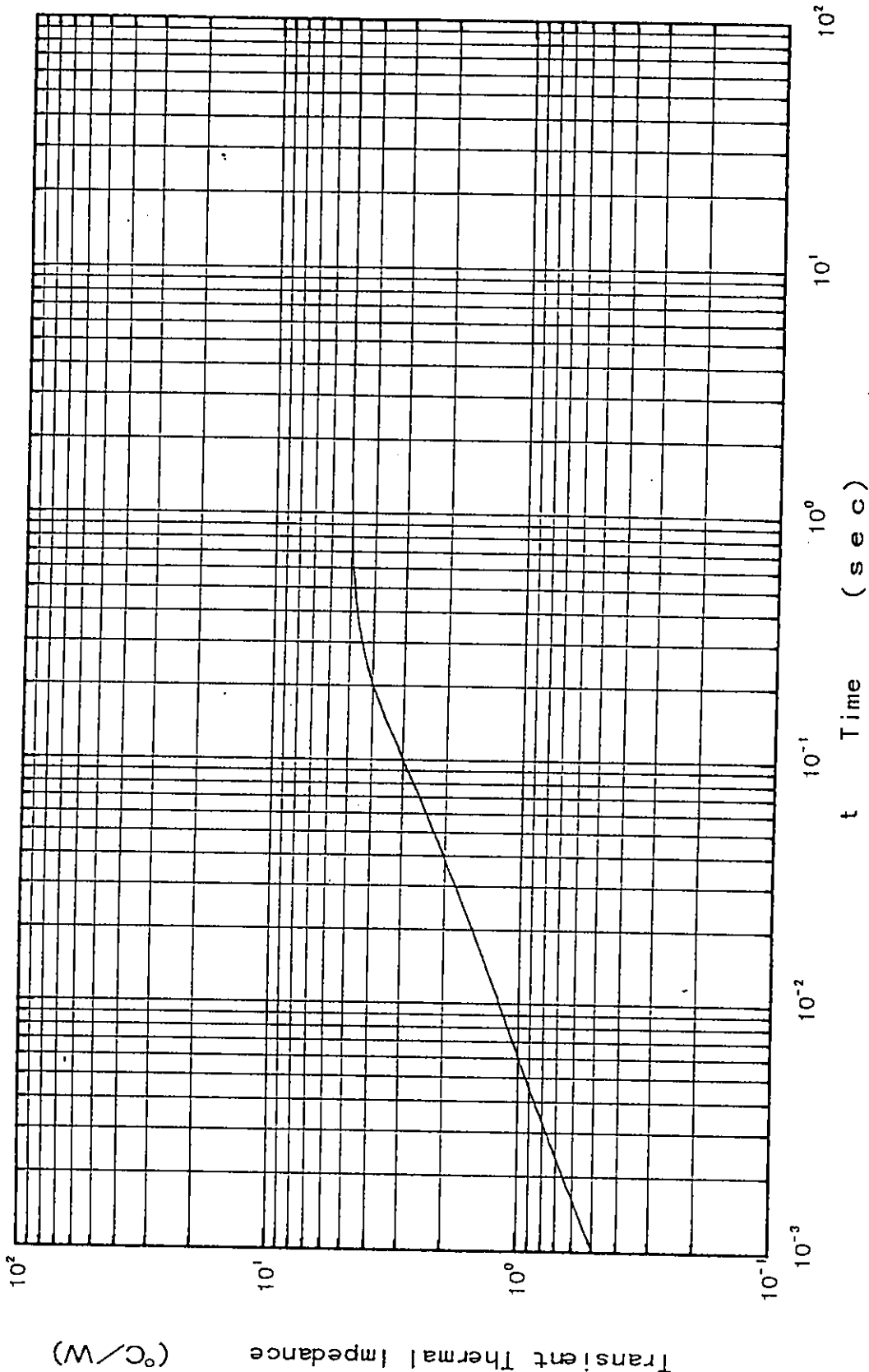
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Transient Thermal Impedance



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