SPECIFICATION

Device Name : SILICON DIODE

Type Name : YG811S06R

Spec. No. :

Fuji Electric Co., Ltd.
Matsumoto Factory

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1. SCOPE

This specification provides the ratings and the test requirement for FUJI SILICON DIODE YG811S06R

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}	tw=500ns, duty=1/40	60	V
Repetitive peak reverse voltage	V_{RRM}		60	V
Isolating voltage	Viso	Terminals-to-Case, AC. 1min	1500	V
Average forward current	Io	Square wave duty=1/2 Tc=127°C	5	A
Non-repetitive surge current	I_{FSM}	Sine wave, 10ms	80	A
Operating junction temperature	Tj		150	°C
Storage temperature	Tstg		-40 to +150	°C

* Out put current of centertap full wave connection.

3.2 ELECTRICAL CHARACTERISTICS (at Ta= 25°C unless otherwise specified.)

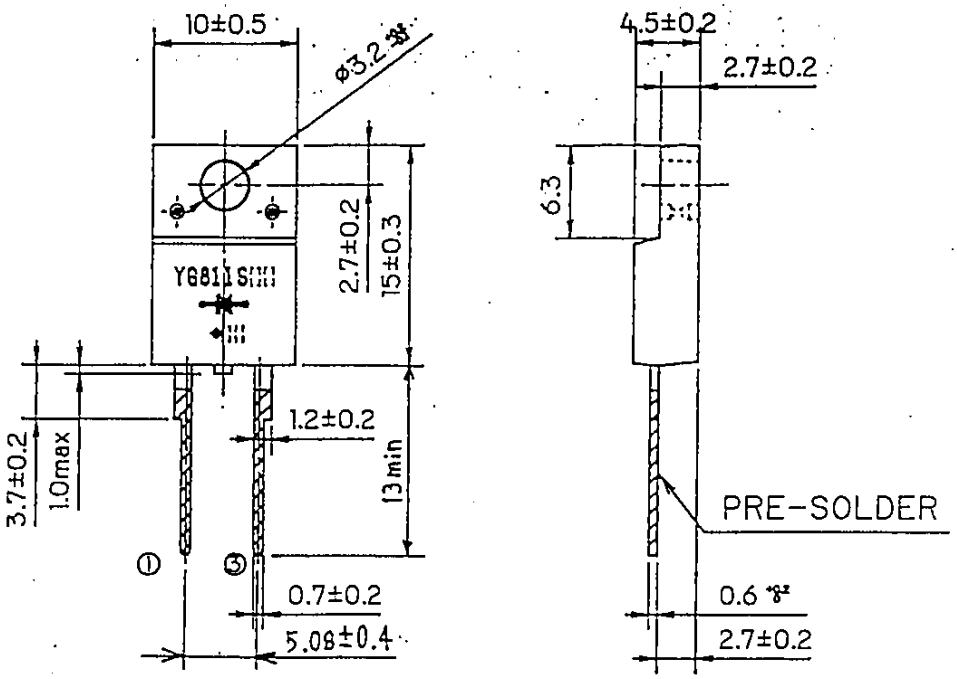
ITEM	SYMBOL	CONDITIONS	MAXIMUM	UNITS
Forward voltage **	V_F	I_F = 5 A	0.59	V
Reverse current **	I_R	$V_R = V_{RRM}$	5.0	mA
Thermal resistance	Rth(j-c)	Junction to case	5.0	°C/W

** Rating per element

3.3 MECHANICAL CHARACTERISTICS

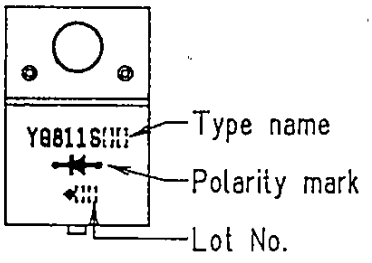
Mounting torque	Recommended torque	0.3 ~ 0.5	N · m
Weight		2.0	g

OUT VIEW



DIMENTIONS ARE IN MILLIMETERS.

MARKING



CONNECTION

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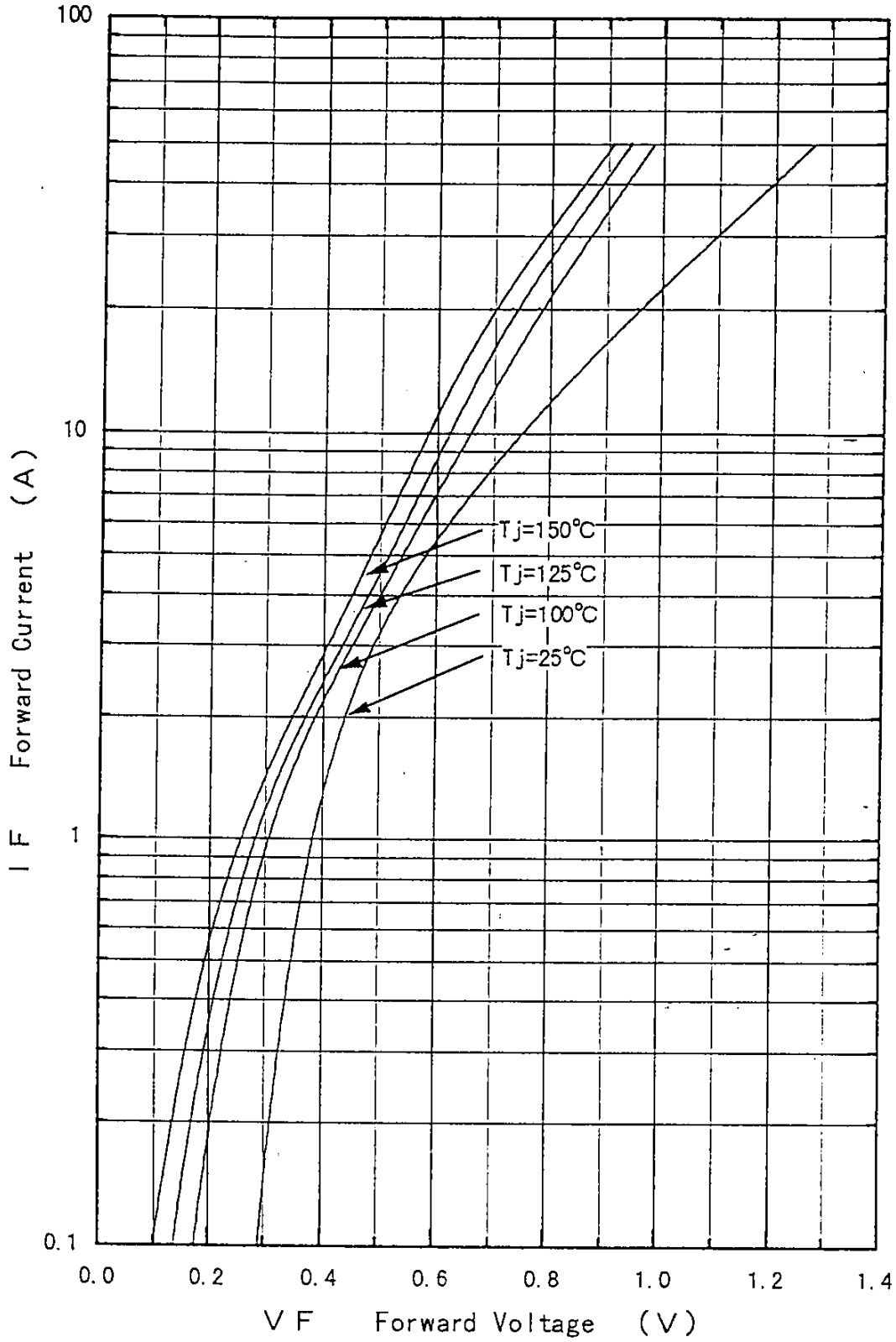
Forward Characteristic (typ.)



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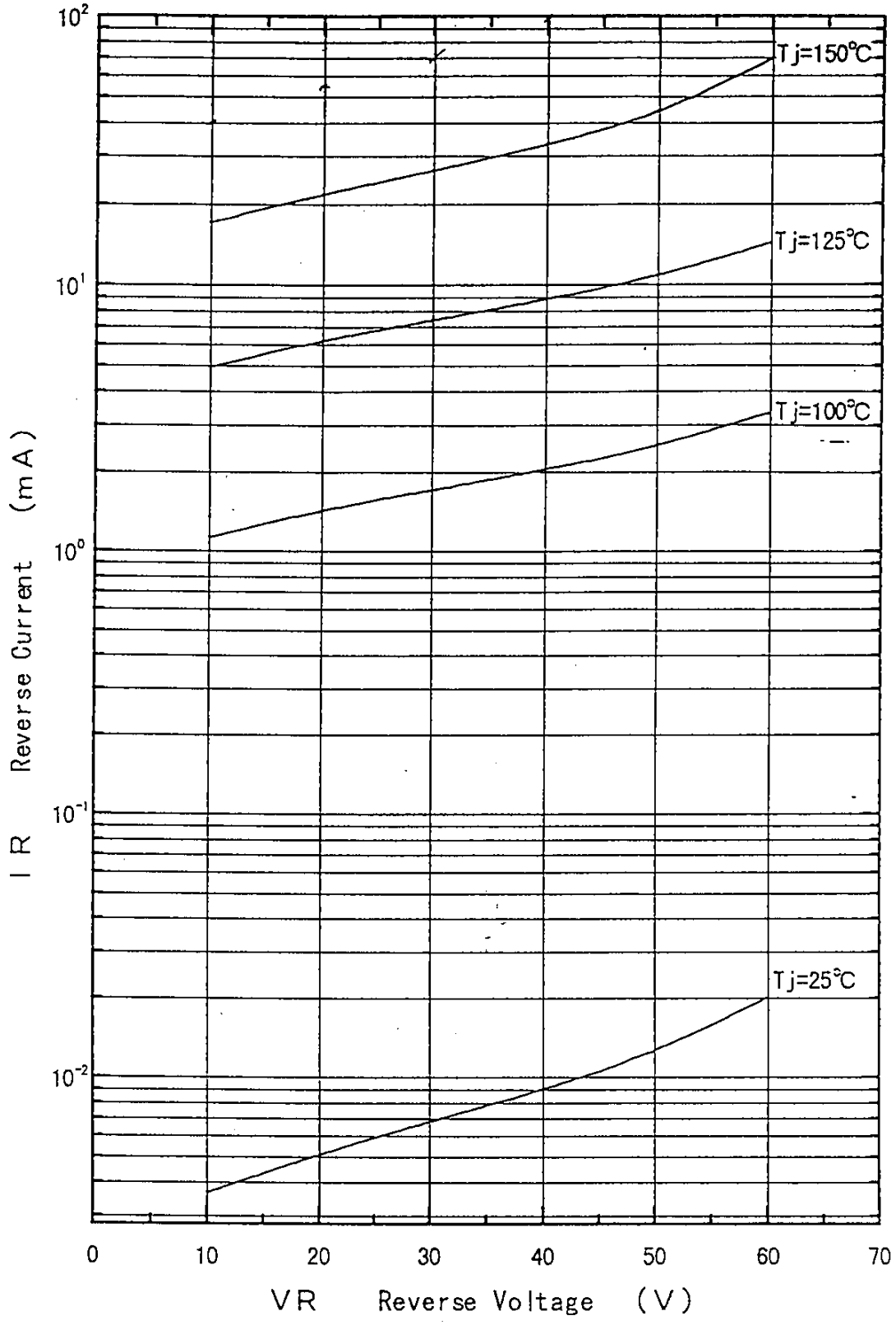
Reverse Characteristic (typ.)



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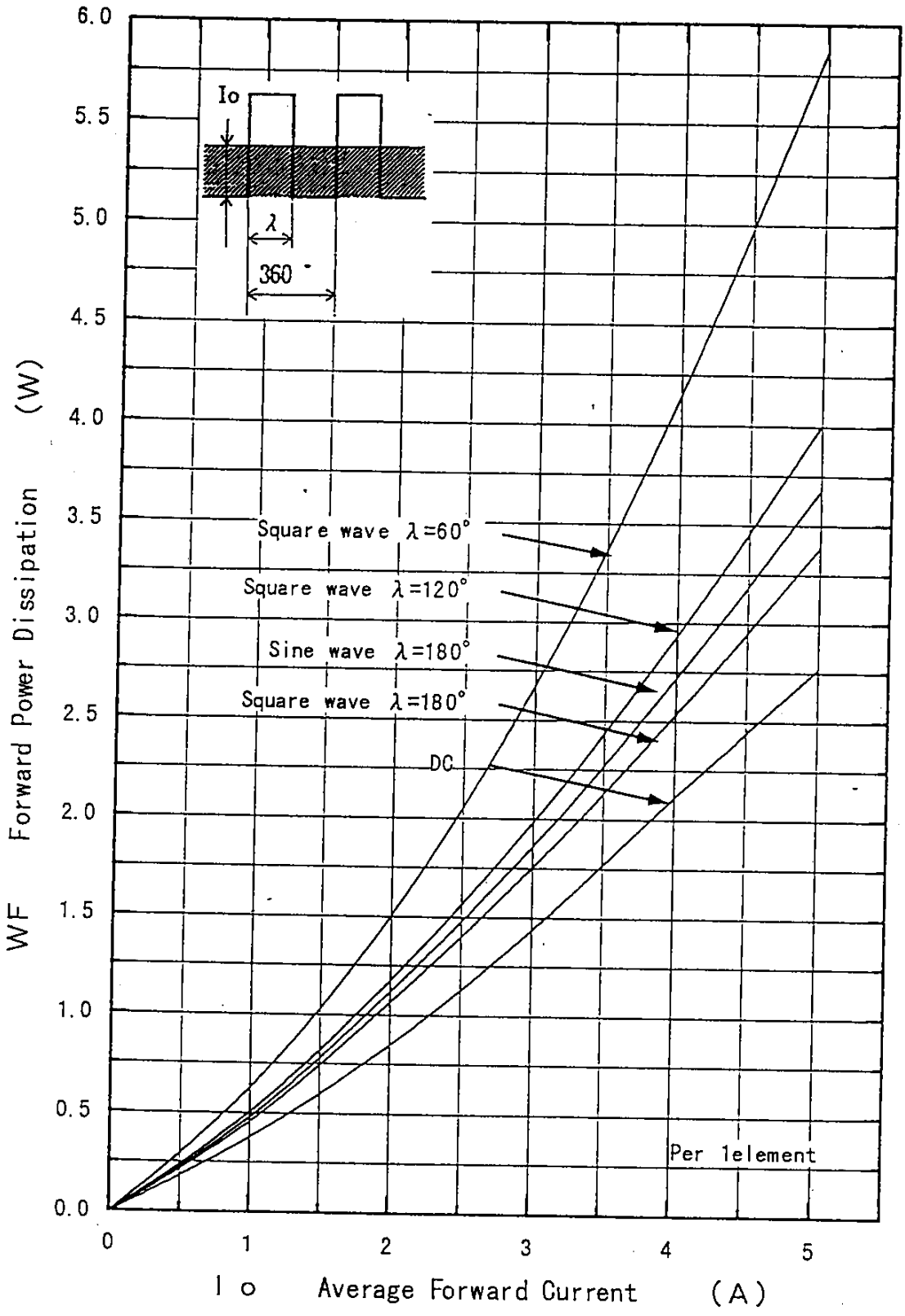
Forward Power Dissipation



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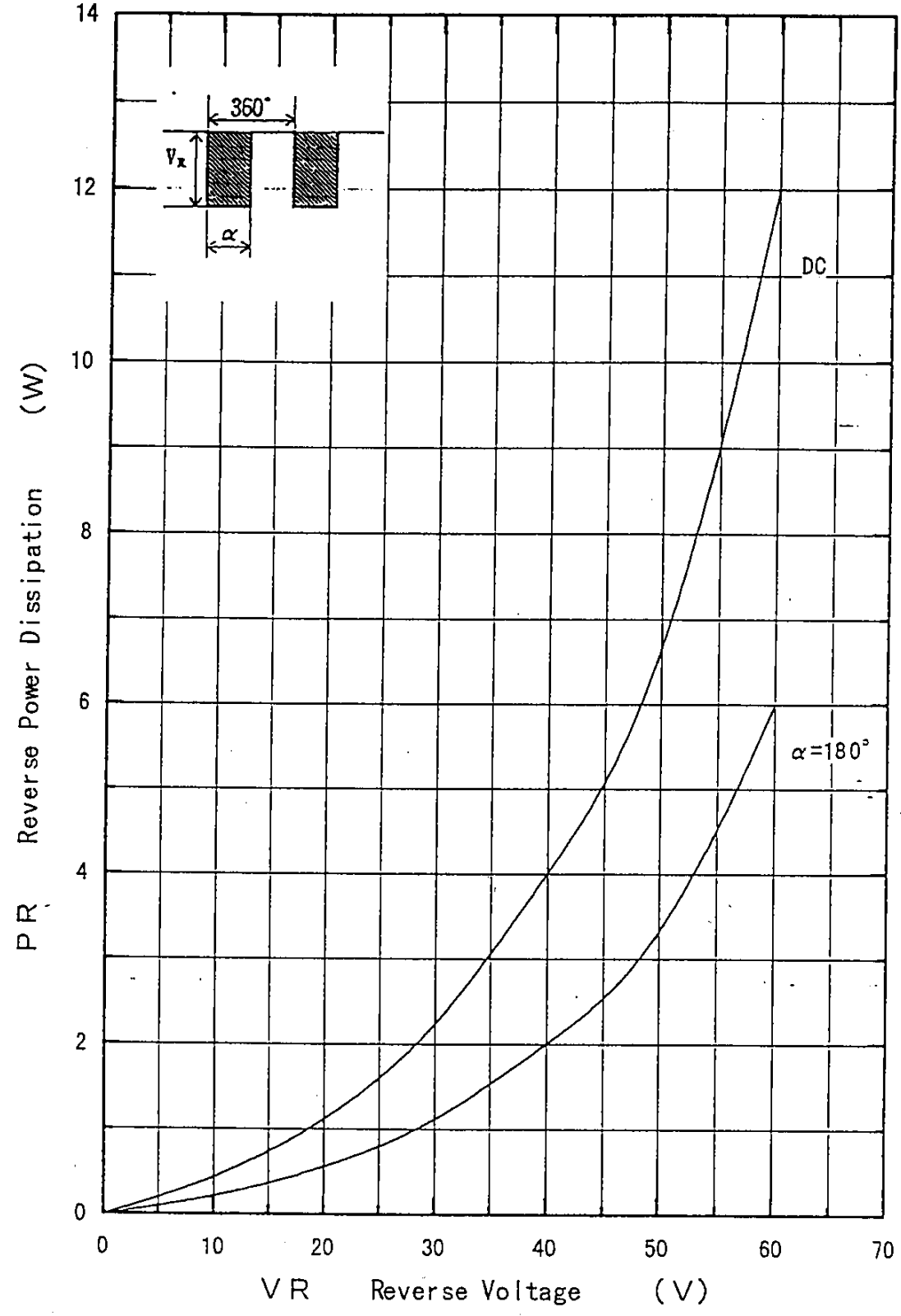
Reverse Power Dissipation



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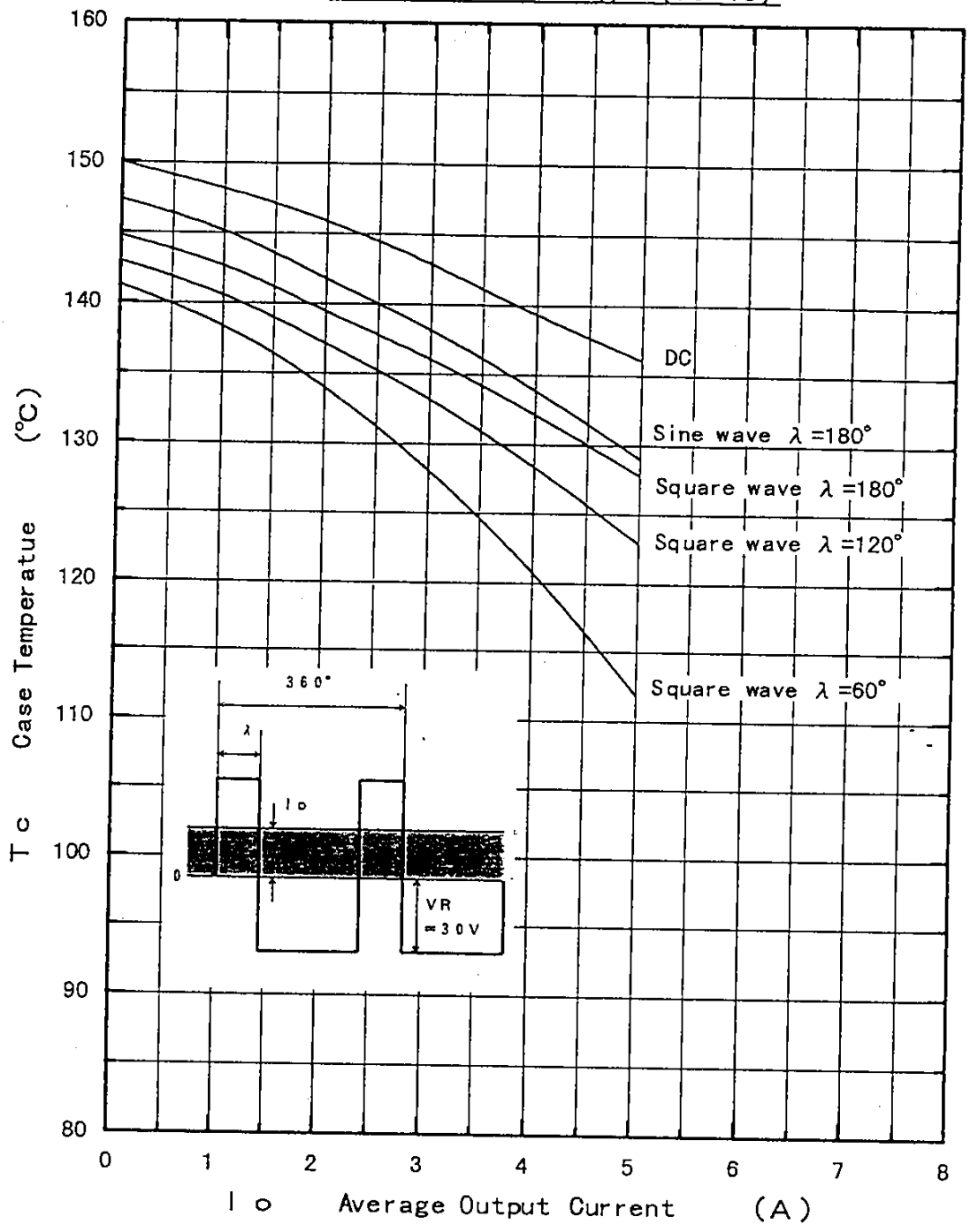
Current Derating (Io-Tc)



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

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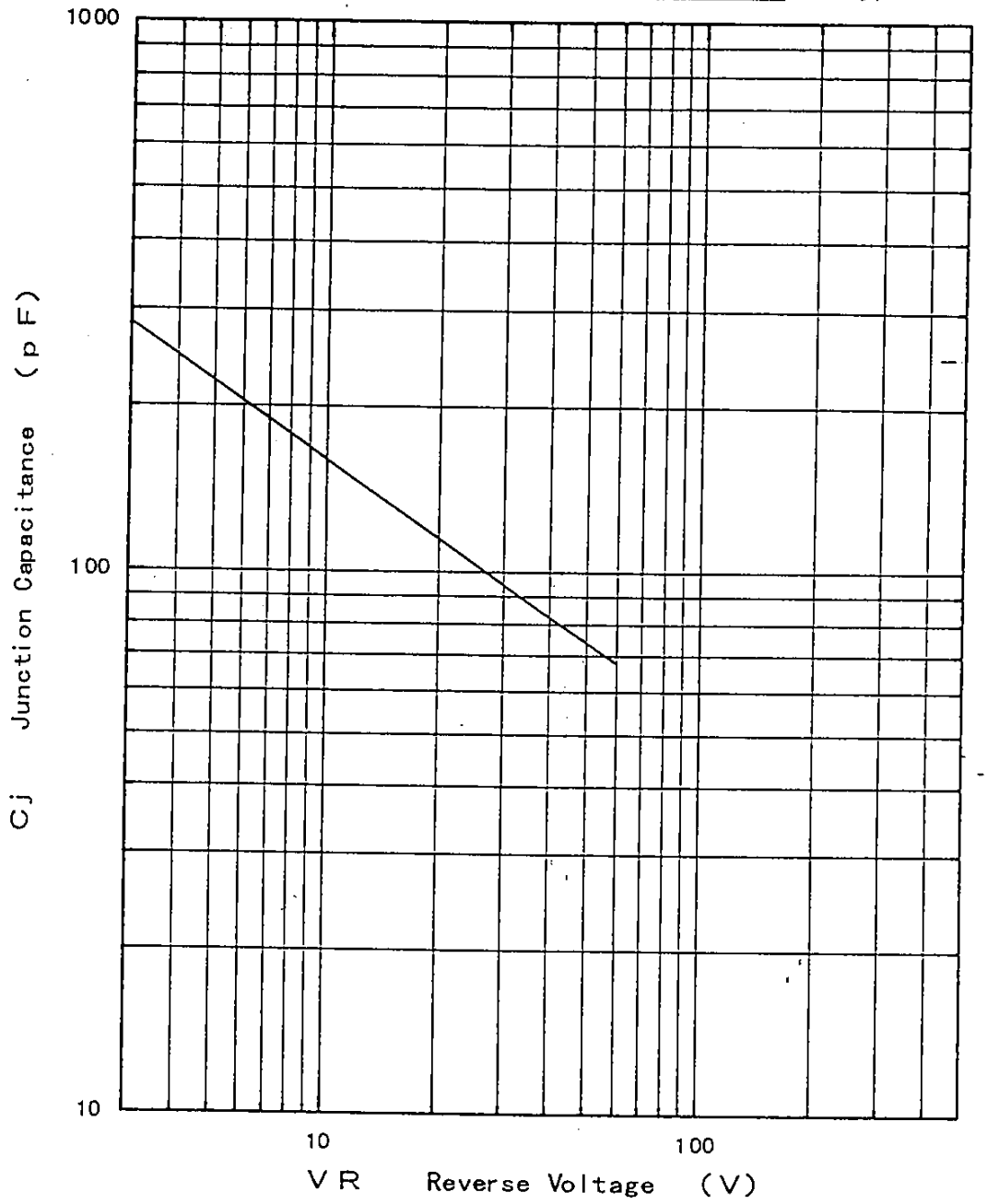
Junction Capacitance Characteristic (typ.)



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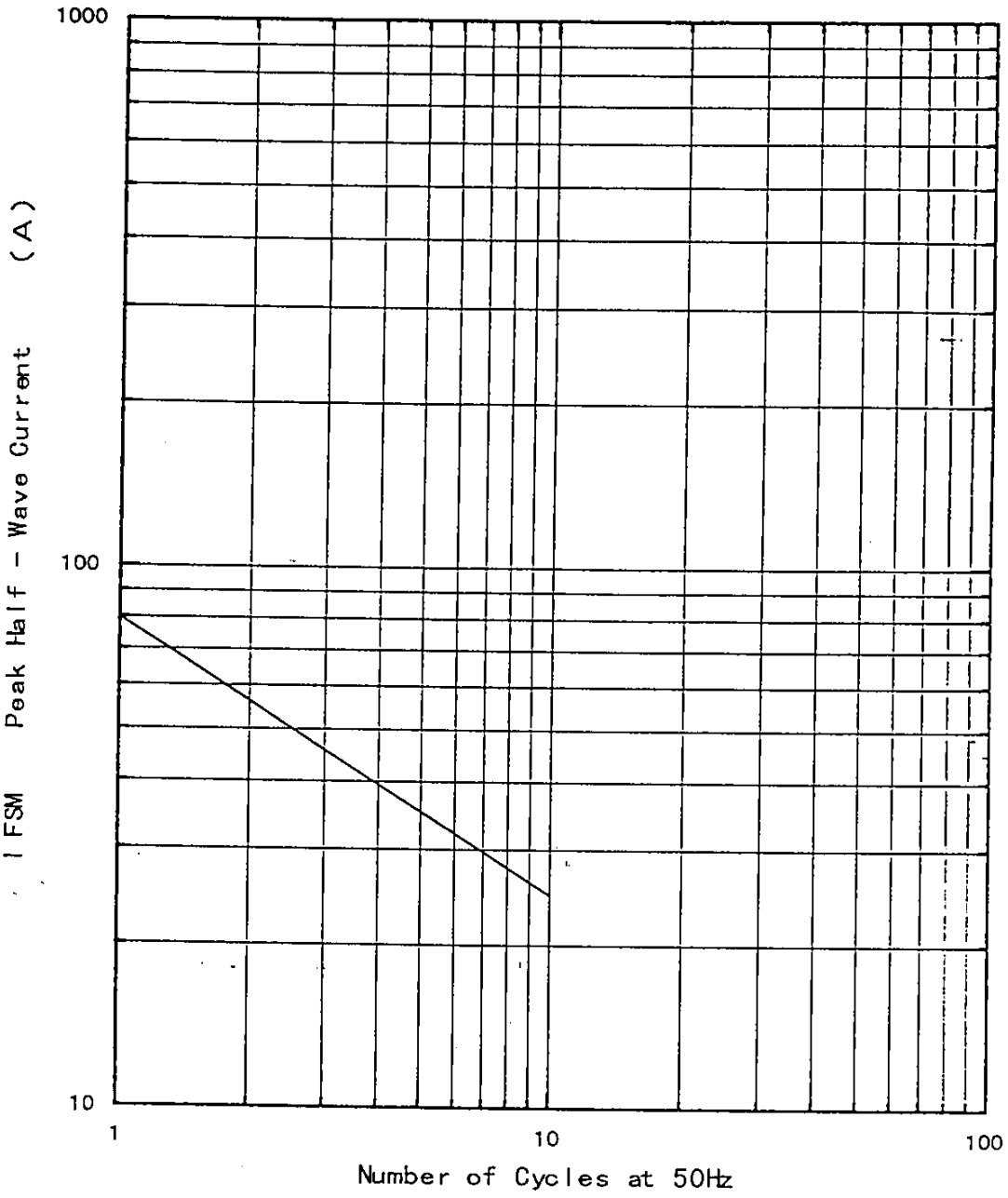
Surge Capability



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Transient Thermal Impedance