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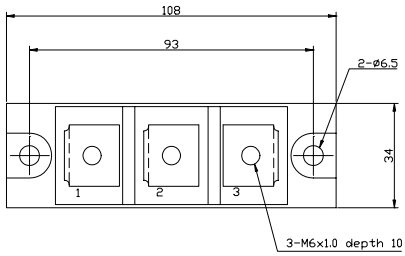
Nihon Inter Electronics Corporation

DIODE MODULE 150A/800V PD1518

OUTLINE DRAWING

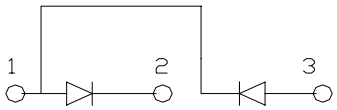
FEATURES

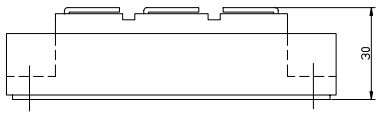
* 108mm Short Size Case
* Isolated Base
* Dual Diodes Cascaded Circuit
* High Surge Capability



TYPICAL APPLICATIONS

* Rectified For General Use





Maximum Ratings

Approx Net Weight:280g

Parameter	Symbol	Type / Grade	Unit
		PD1518	
Repetitive Peak Reverse Voltage *1	V_{RRM}	800	V
Non Repetitive Peak Reverse Voltage *1	V_{RSM}	900	

Parameter		Symbol	Conditions	Max Rated Value	Unit
Average Rectified Output Current *1		$I_{O(AV)}$	50 Hz Half Sine Wave condition Tc=103℃	150	A
RMS Forward Current *1		$I_{F(RMS)}$		235	A
Surge Forward Current *1		I_{FSM}	50 Hz Half Sine Wave, 1cycle, Non-Repetitive	3200	A
I Squared t *1		I^2t	2msec to 10msec	51200	A^2s
Operating Junction Temperature Range		Tjw		-40 to +150	℃
Storage Temperature Range		Tstg		-40 to +125	℃
Isoration Voltage		Viso	Base Plate to Terminals, AC1min	2500	V
Mounting Torque	Case Mounting	Ftor	M6 Screw	2.5 to 3.5	N•m
	Terminals		M6 Screw	2.5 to 3.5	

Electrical • Thermal Characteristics

Characteristics	Symbol	Test Conditions	Max.	Unit
Peak Reverse Current *1	I_{RM}	V_{RM}= V_{RRM}, Tj= 150℃	15	mA
Peak Forward Voltage *1	V_{FM}	I_{FM}= 450A, Tj=25℃	1.28	V
Thermal Resistance *1	Rth(j-c)	Junction to Case	0.25	℃/W
	Rth(c-f)	Case to Fin, Greased	0.15	

*1: Value Per 1Arm

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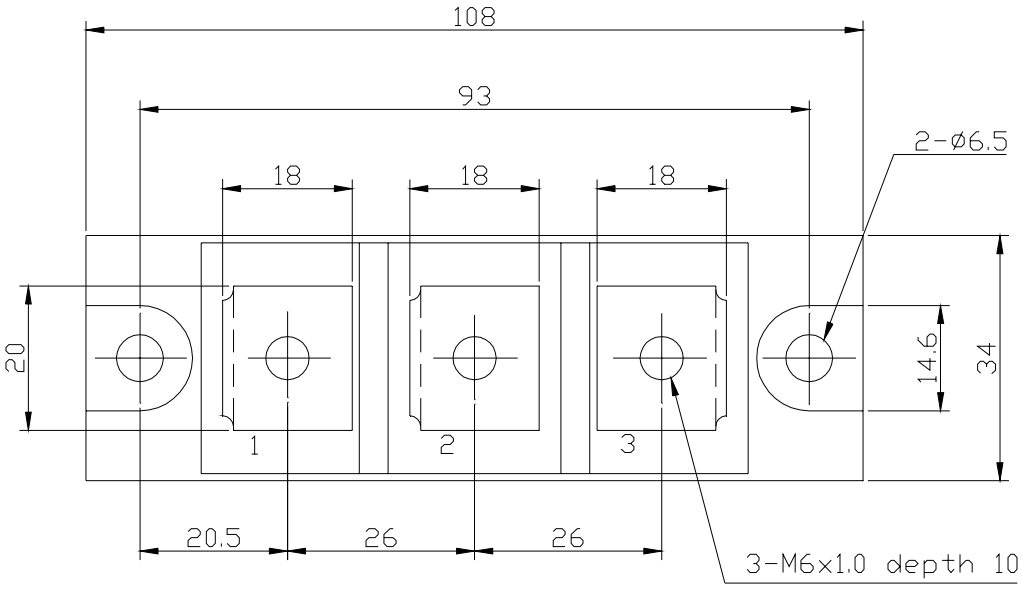
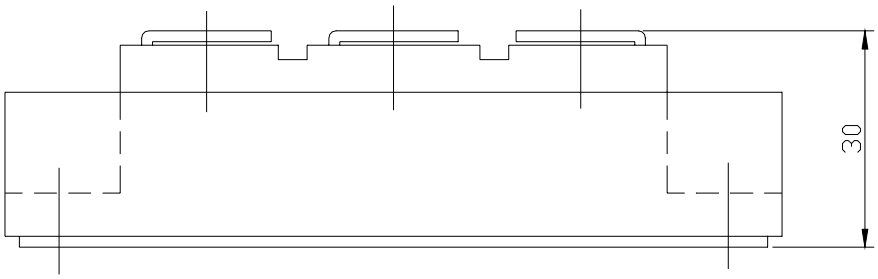
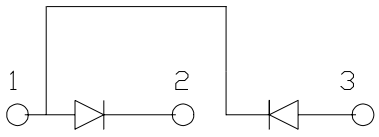
PD1518 OUTLINE DRAWING (Dimensions in mm)







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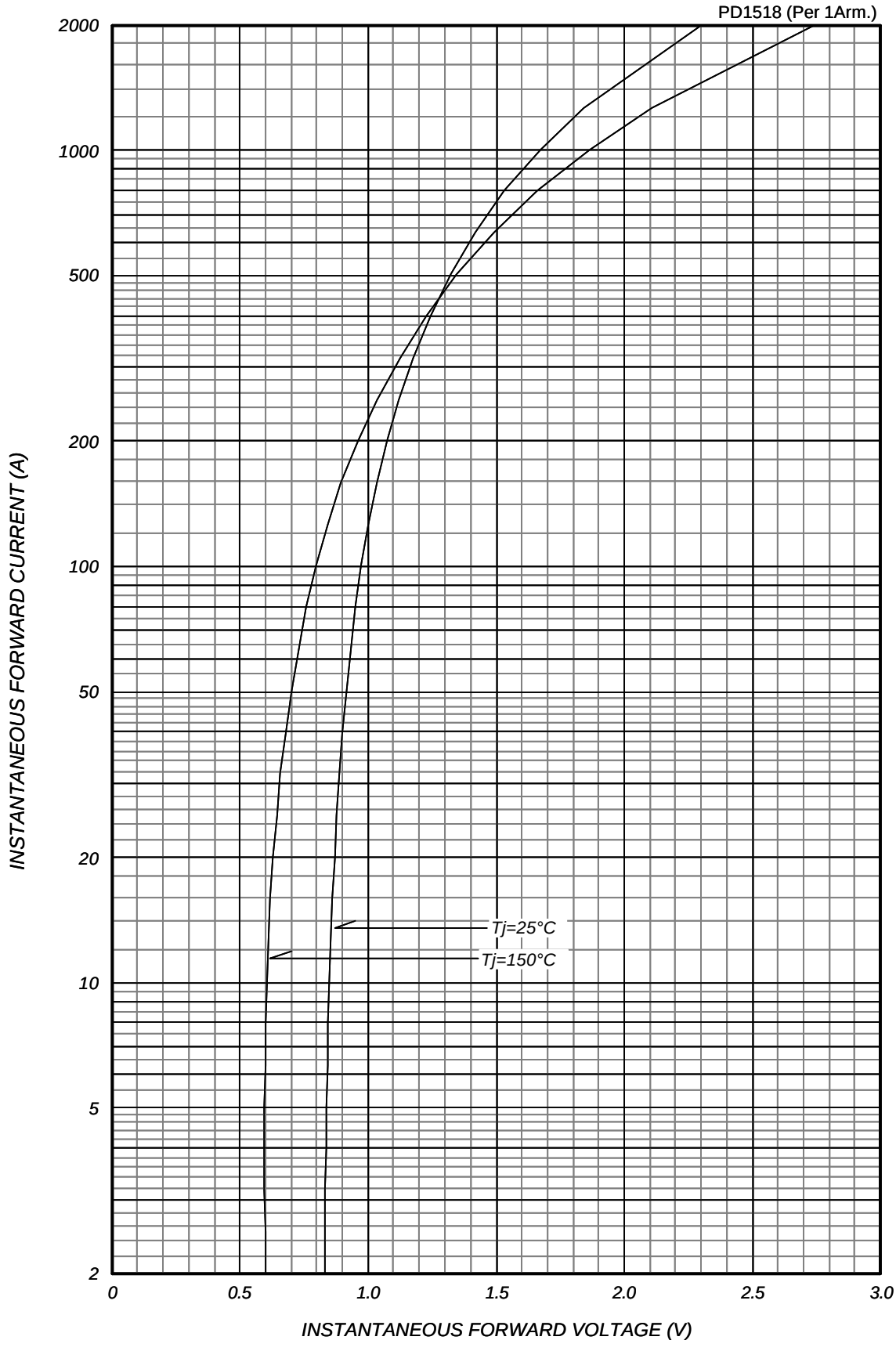
FORWARD CURRENT VS. VOLTAGE



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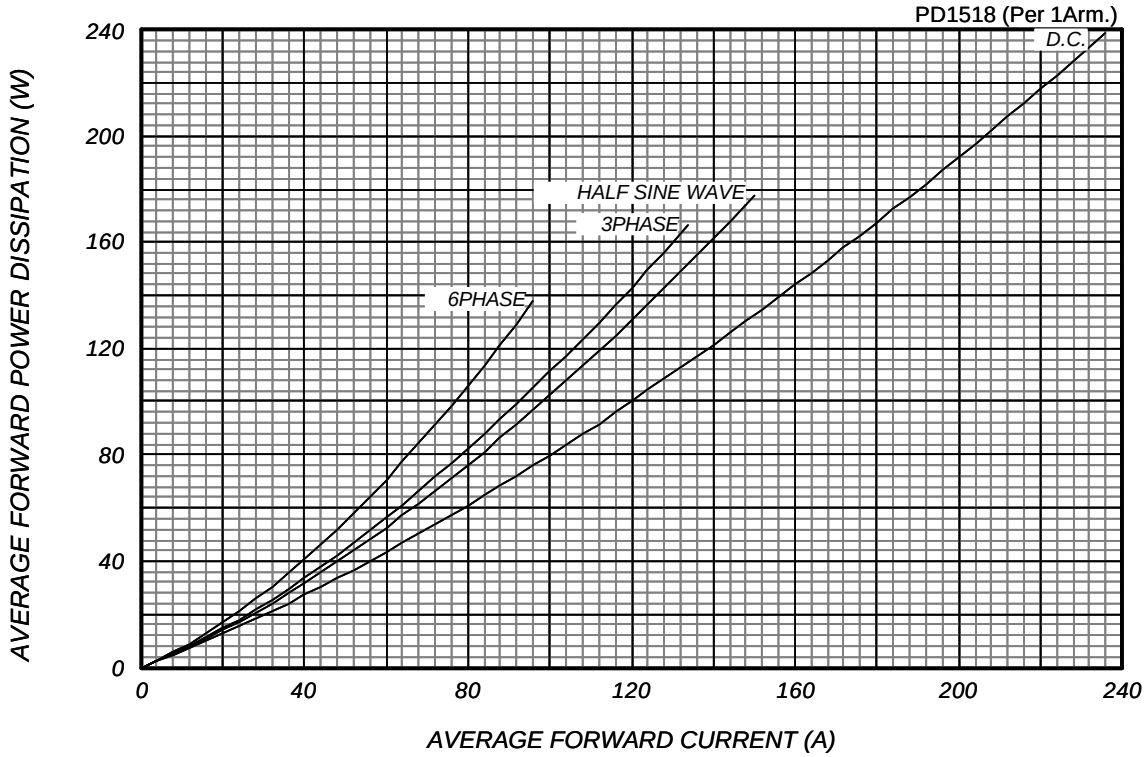
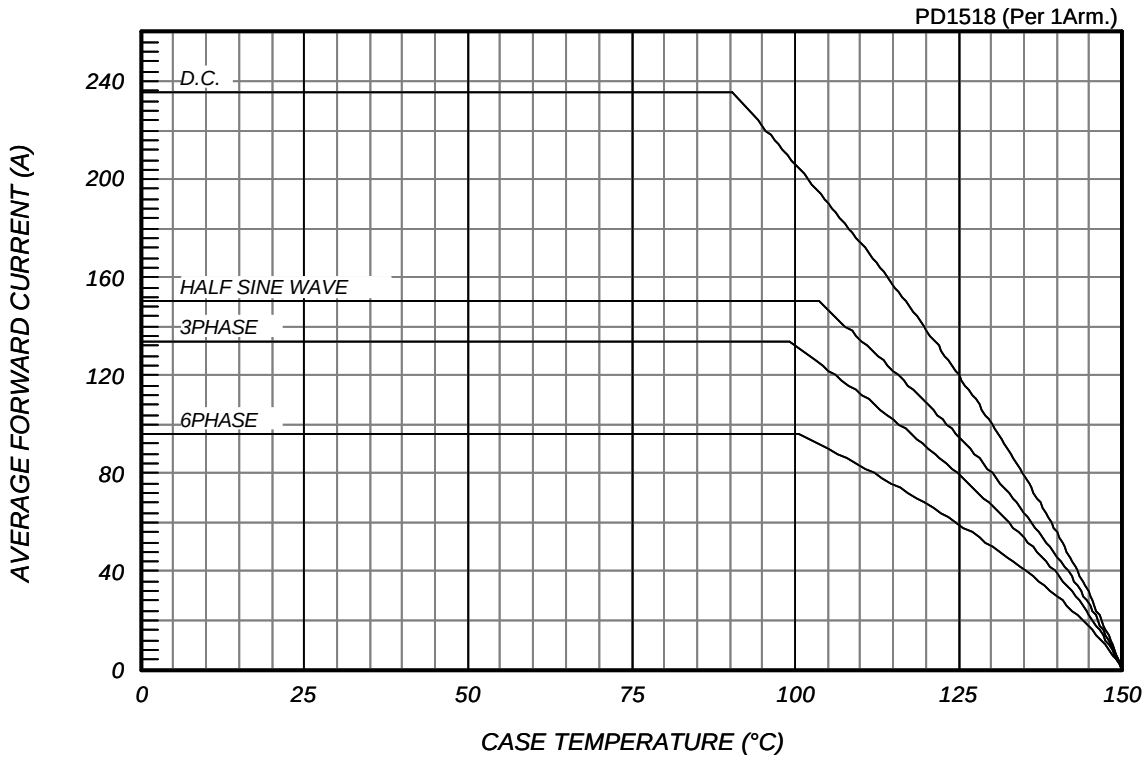
AVERAGE FORWARD POWER DISSIPATION



AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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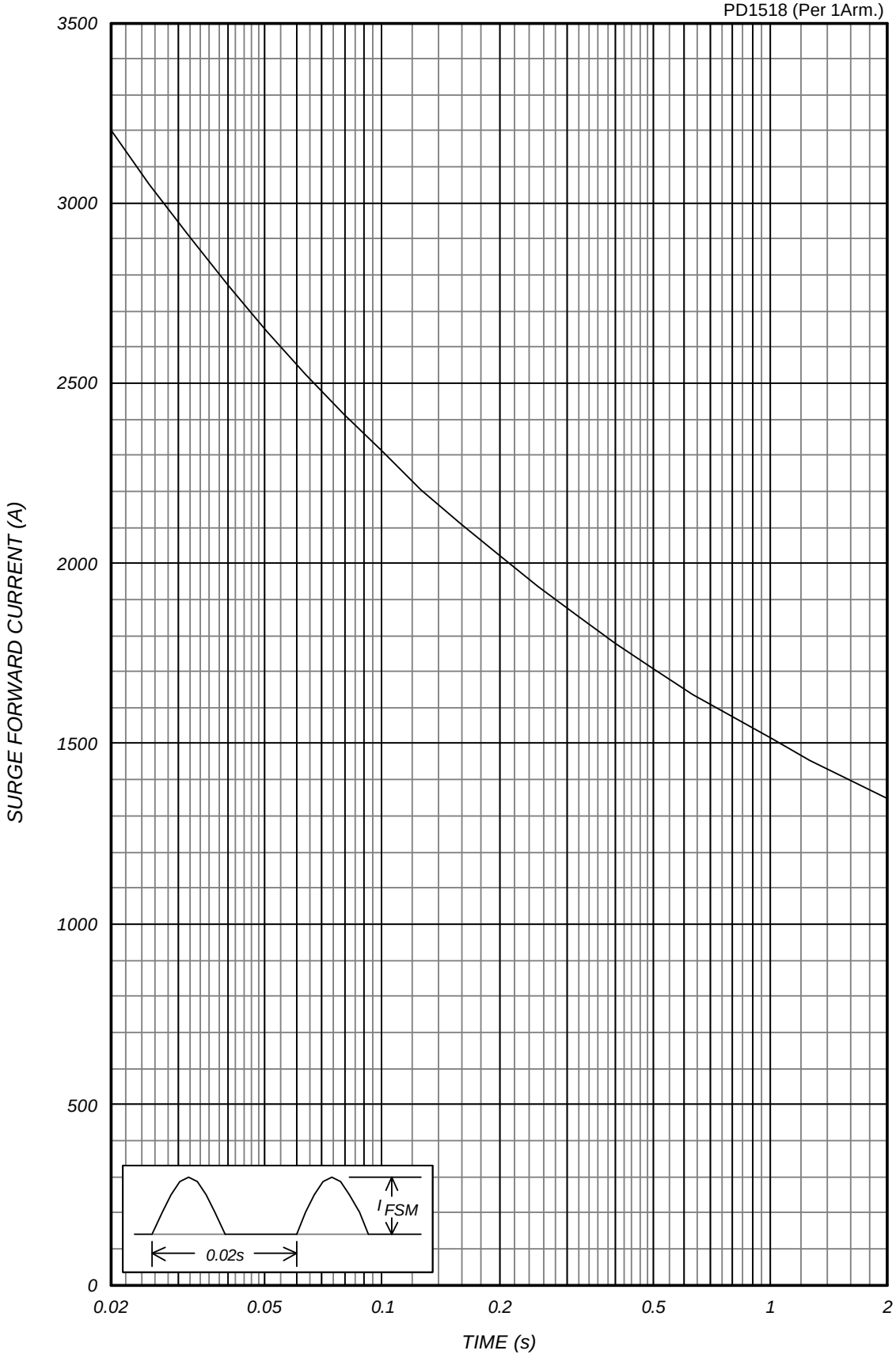
SURGE CURRENT RATINGS

f=50Hz,Half Sine Wave,Non-Repetitive,Tj=150°C

PD1518 (Per 1Arm.)



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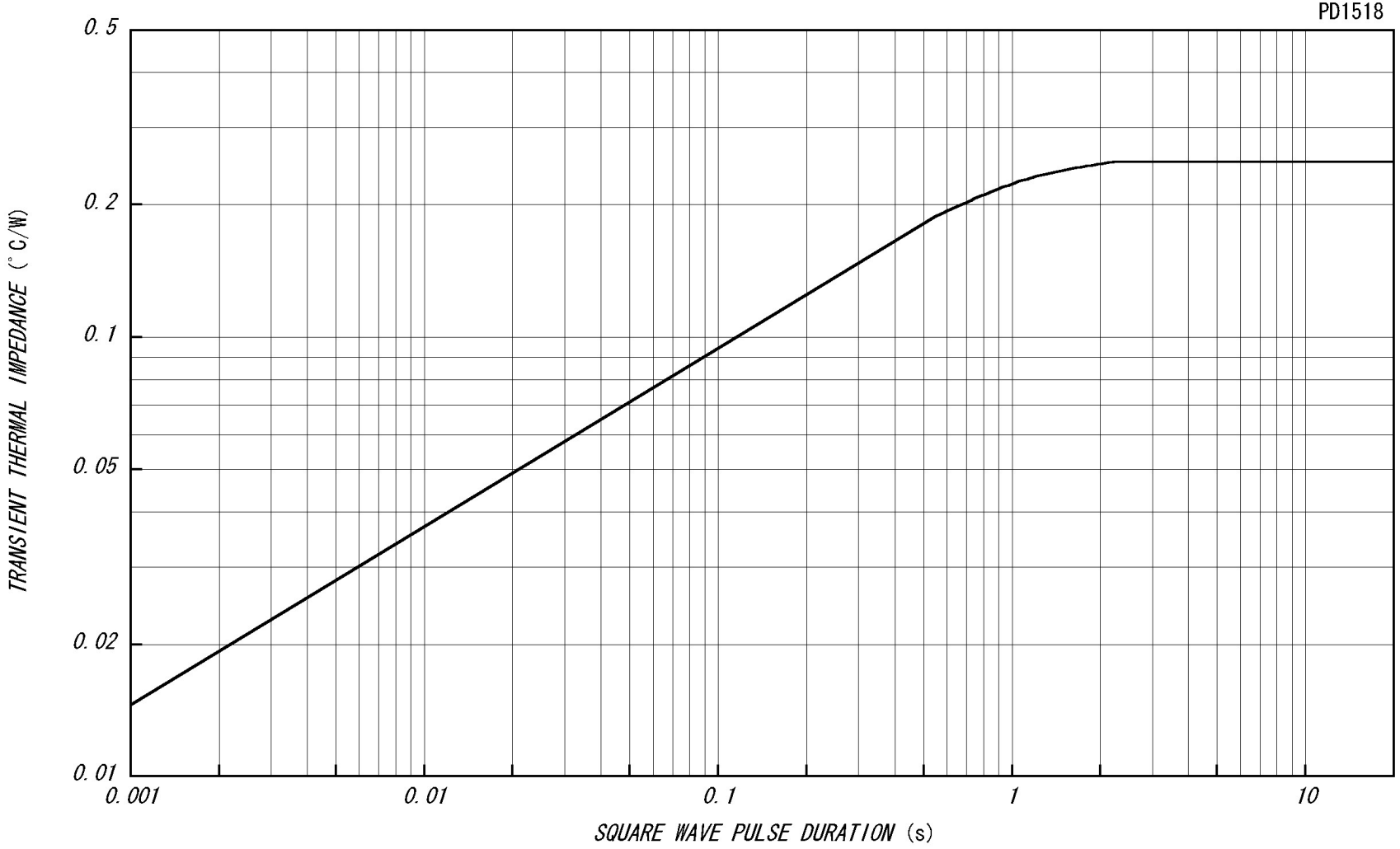
MAXIMUM TRANSIENT THERMAL IMPEDANCE

Junction to Case

PD1518



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