

DIODE(THREE PHASES BRIDGE TYPE)

DF200AA120/160

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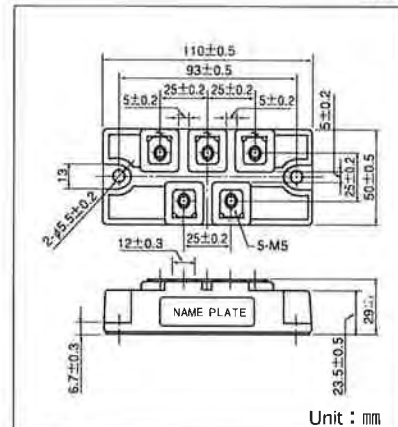
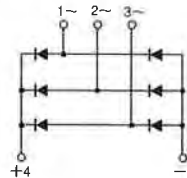
UL:E76102(M)

Power Diode Module **DF200AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 200Amp ($T_c=96^\circ\text{C}$) Repetitive peak reverse voltage is up to 1,600V.

- $T_{j\text{Max}}=150^\circ\text{C}$
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching
 -for three phase rectification



Maximum Ratings

($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		DF200AA120	DF200AA160	
V_{RRM}	Repetitive Peak Reverse Voltage	1200	1600	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	Item	Conditions	Ratings	Unit
I_D	Output Current (D.C.)	Three Phase full wave. $T_c=96^\circ\text{C}$	200	A
I_{FSM}	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	1850/2000	A
I^2t	I^2t	Value for one cycle of surge current	17000	A^2S
T_j	Operating Junction Temperature		-40 to $+150$	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to $+125$	$^\circ\text{C}$
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)
	Mass	Typical Value	360	g

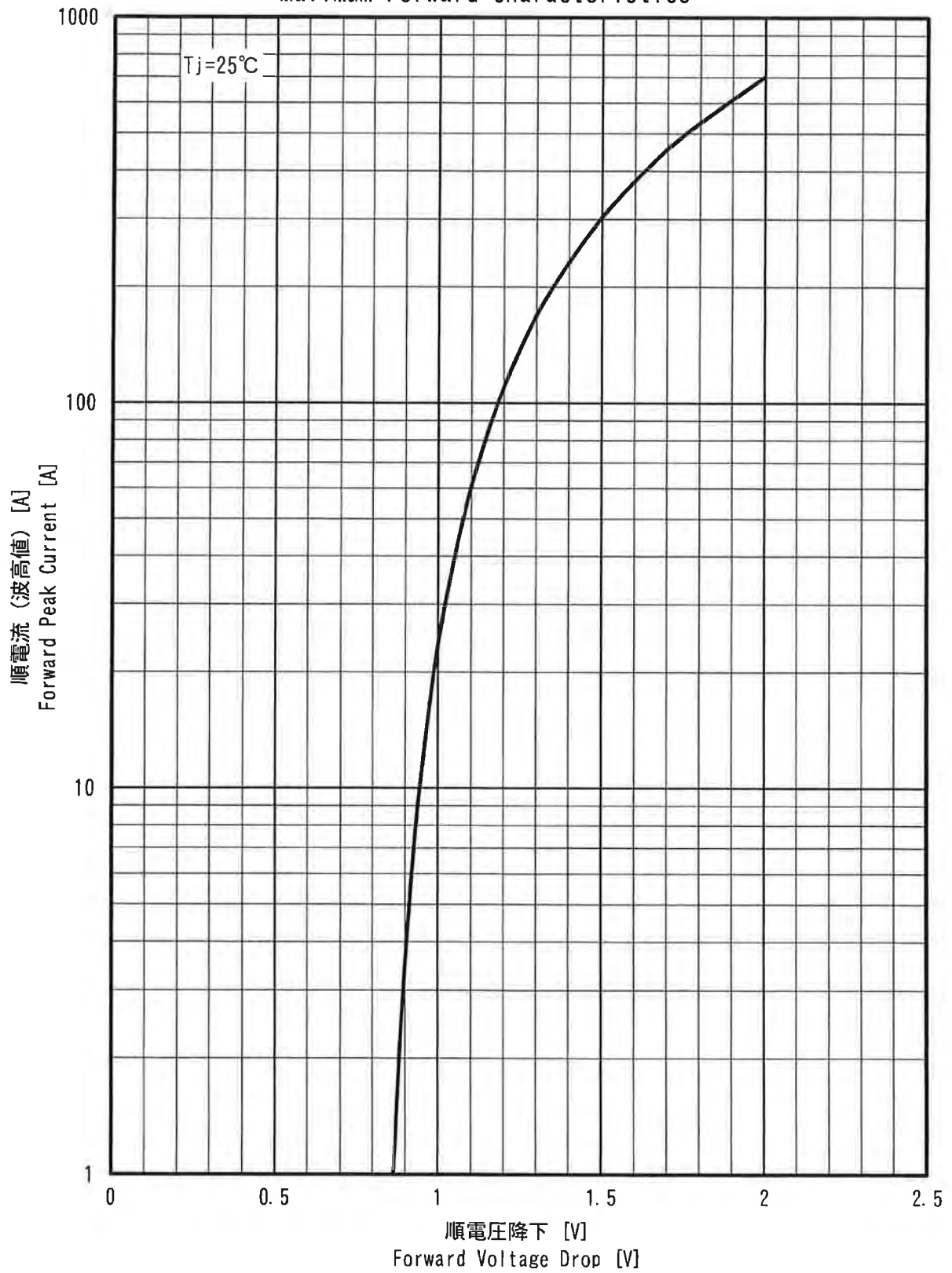
Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_j=150^\circ\text{C}$ at V_{RRM}	20.0	mA
V_{FM}	Forward Voltage Drop, max.	$T_j=25^\circ\text{C}$, $I_{FM}=200\text{A}$, Inst. measurement	1.35	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.10	$^\circ\text{C/W}$

DF200AA

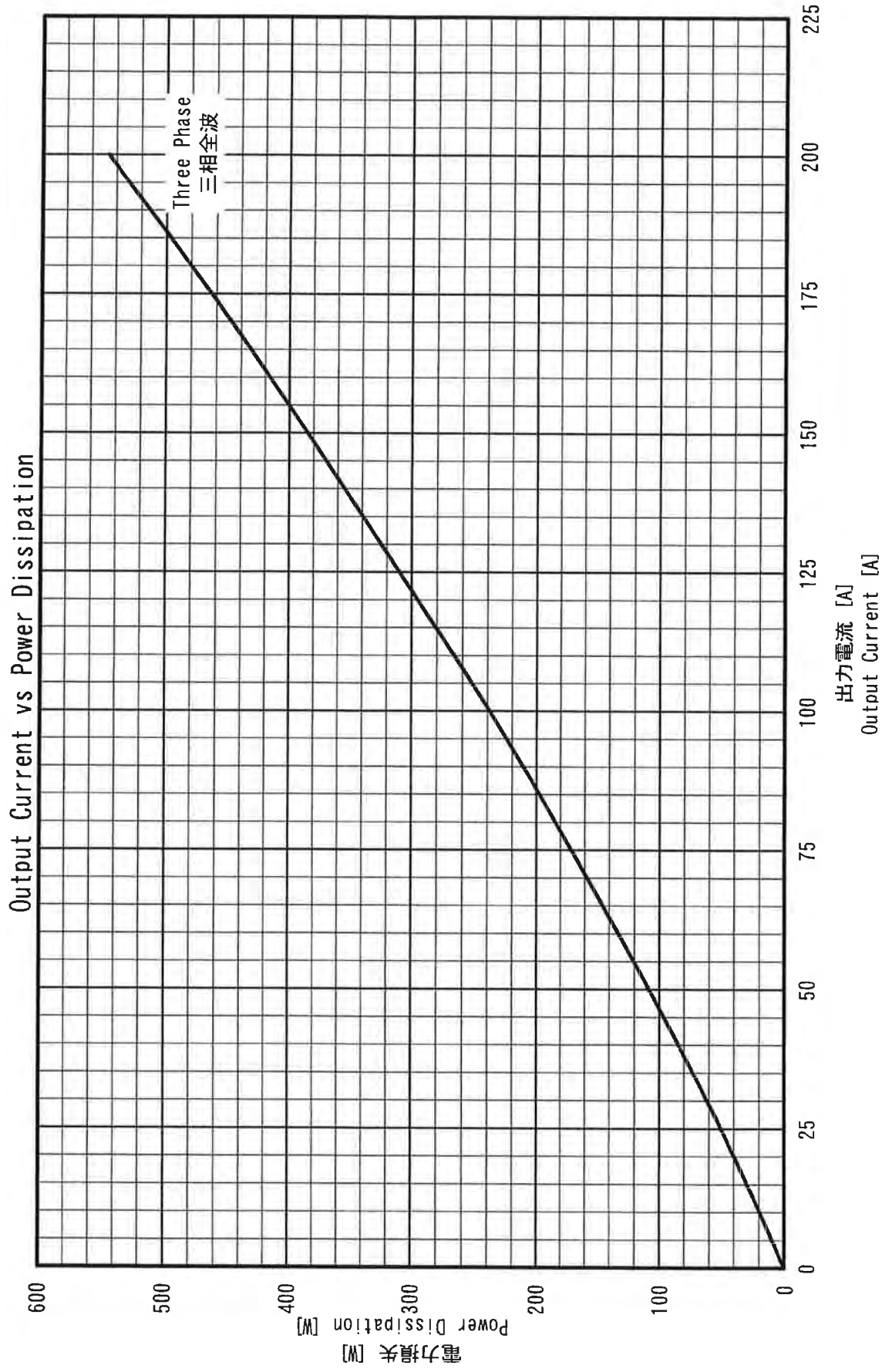
最大順特性

Maximum Forward Characteristics



DF200AA

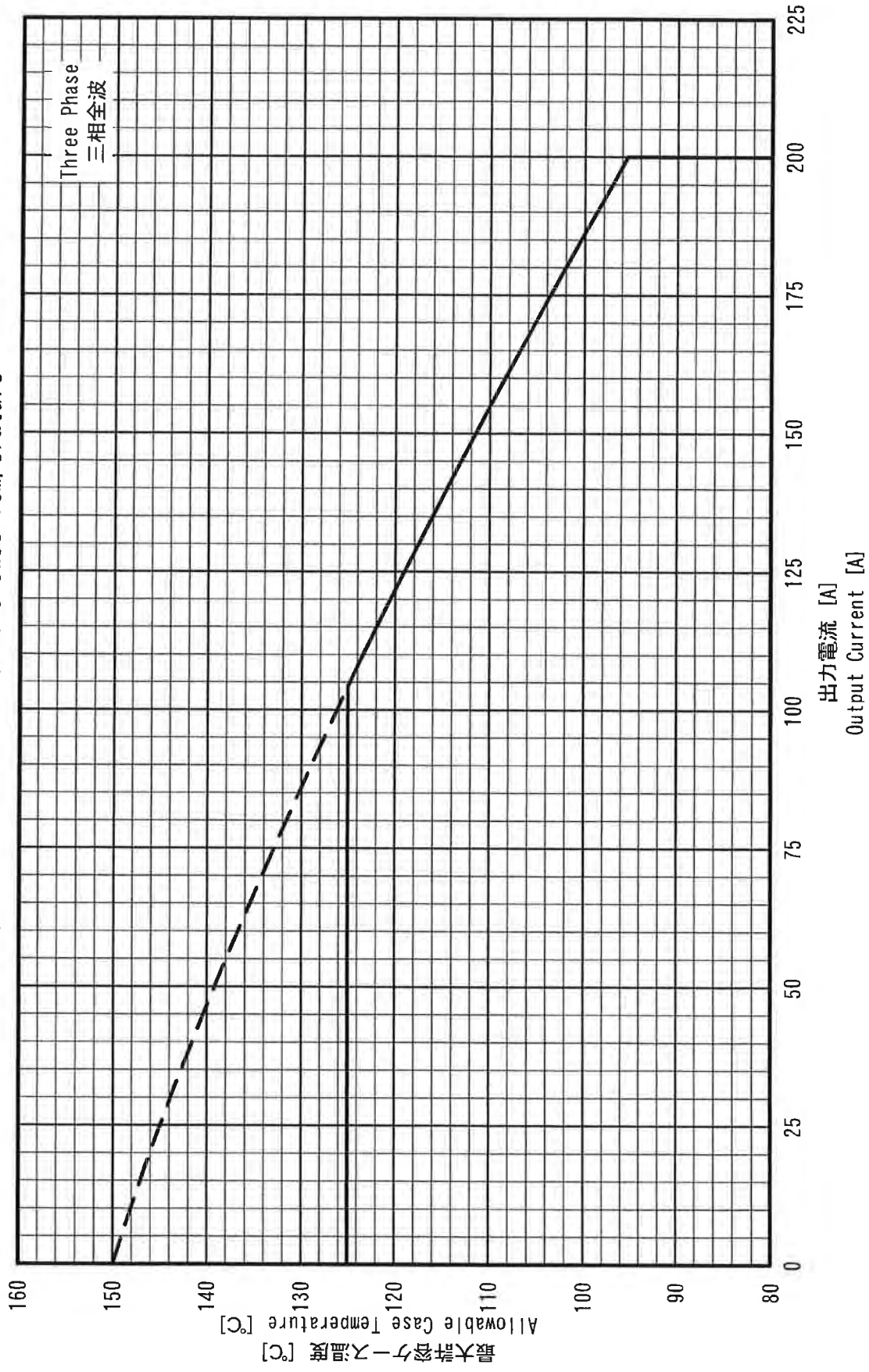
最大電力損失特性



DF200AA

出力電流対最大許容ケース温度

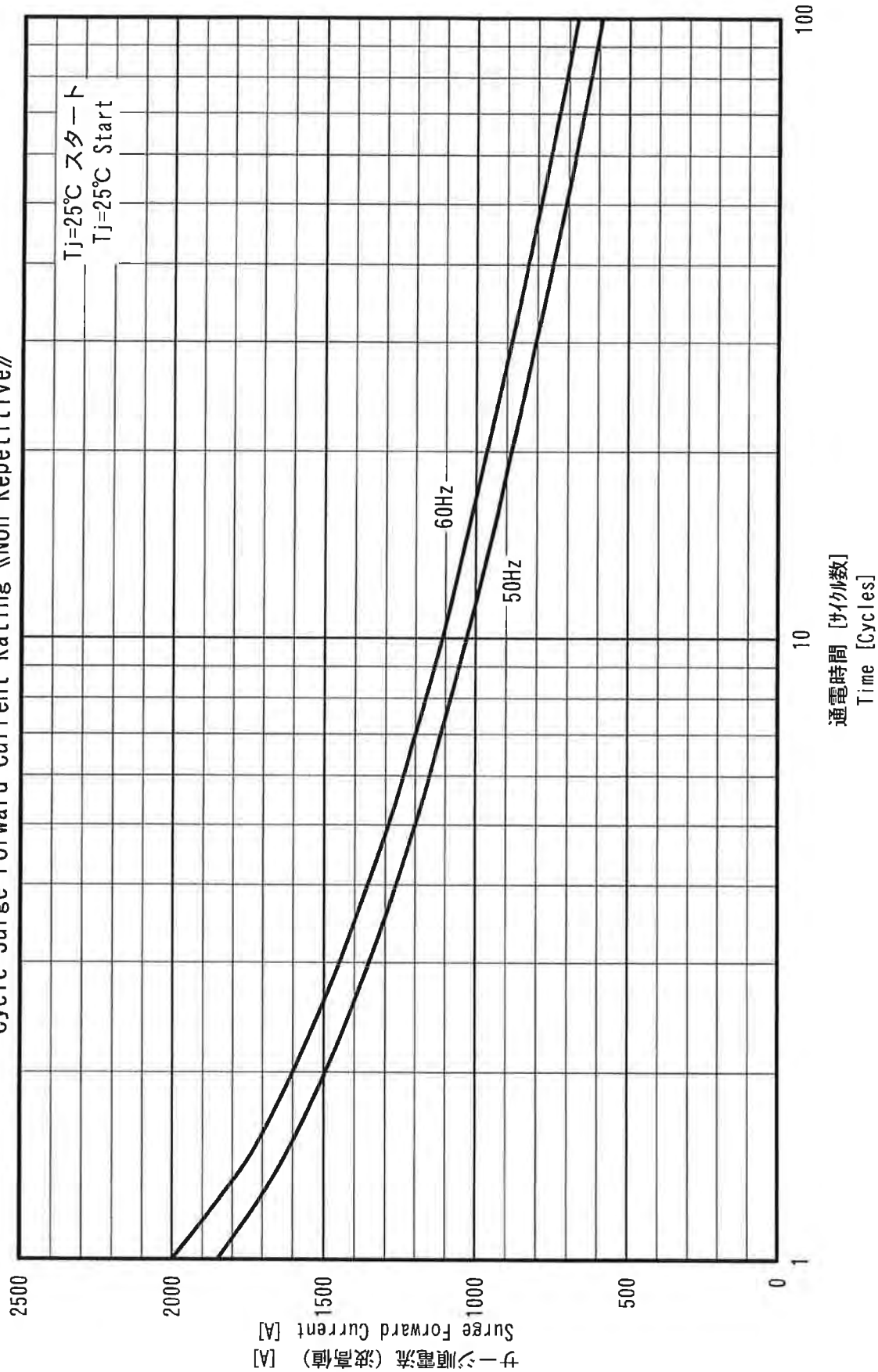
Output Current vs. Allowable Case Temperature



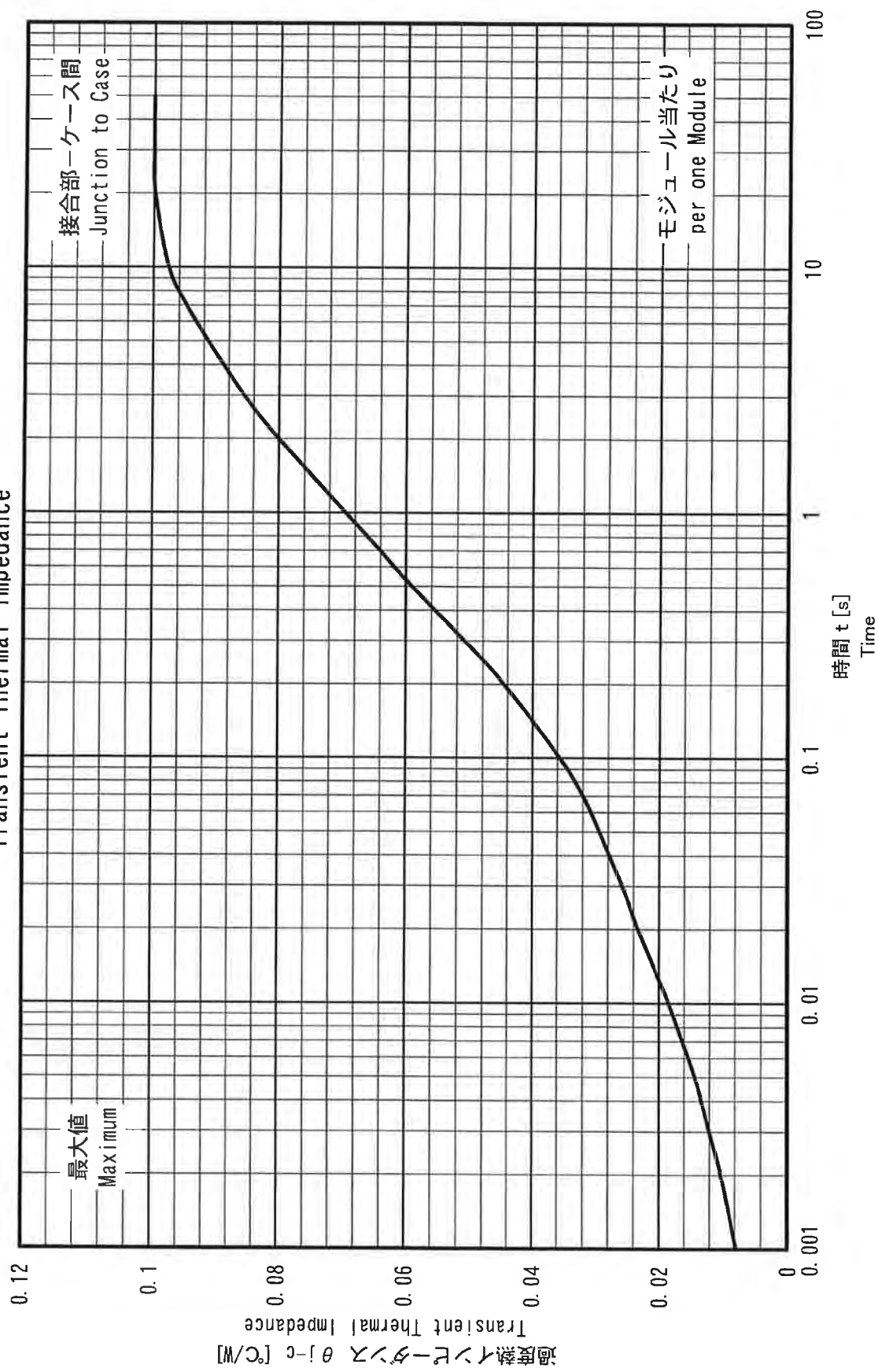
DF200AA

サージ順電流耐量《非くり返し》

Cycle Surge Forward Current Rating 《Non-Repetitive》



DF200AA 過度熱インピーダンス特性 Transient Thermal Impedance



DF200AA160

サージ順電流対時間

Surge Forward Current vs. Time

