



SANSHA ELECTRIC MFG.CO.,LTD.

Fast Recovery Diode Module SPECIFICATION

1. PART NUMBER

DBA200XA20

2. DEVICE TYPE

Isolated module

3. RATINGS AND CHARACTERISTICS

100A

200V

See spec sheet and graphs attached.

4. OUTLINE DRAWING

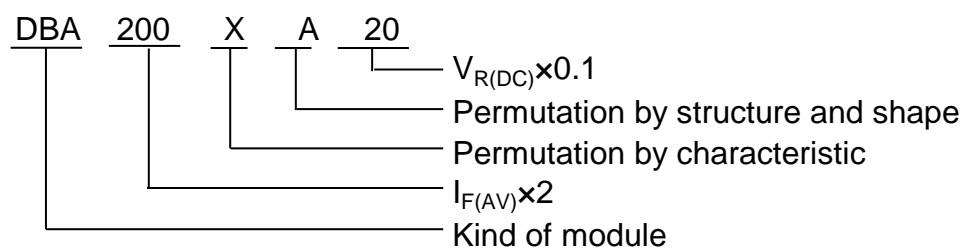
See Drawing No.G00A0132900 attached.

5. TEST PERFORMED BY

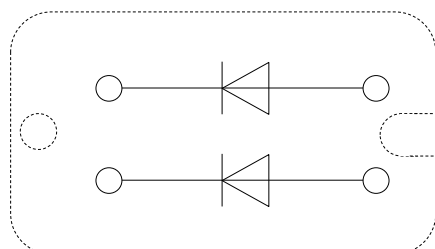
JEITA ED-4511B

IEC 60747-2

6. DEFINITION OF PART NUMBER

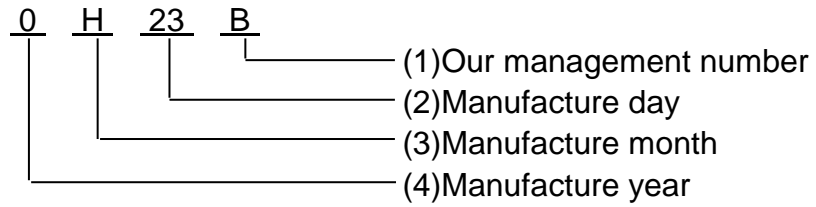


7. ELECTRIC DIAGRAM



B00A1196400

8. DEFINITION OF LOT NUMBER



(1) Our management number.

(2) Manufacture day.

"01-31" : From 1th to 31th.

Example "23" : 23th.

(3) Manufacture month.

"A - L" : From January to December.

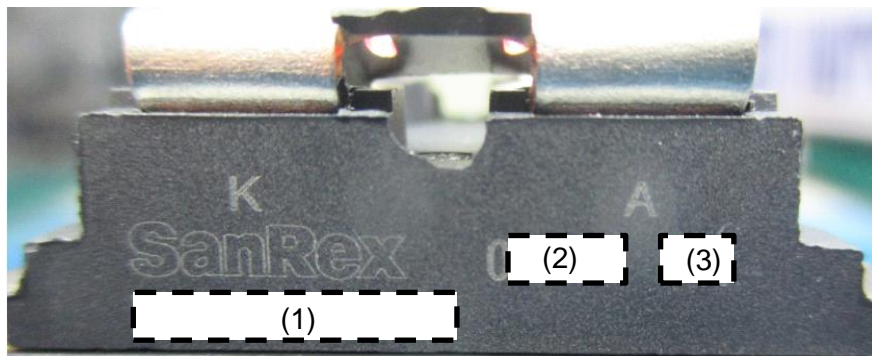
Example "H" : August

(4) Manufacture year.

The number of the end of A.D.

Example "0" : 2**0 years.

9. PRODUCT PRINTING SPECIFICATIONS



(1) Part Number

(2) Lot Number

(3) Country of origin

10. STANDARD

UL 1557
RoHS Compliant

11. SPECIAL NOTE

DBA200XA20

■ Maximum Ratings

(T_j=25°C unless otherwise specified, per diode)

Item	Symbol	Unit	DBA200XA20
Repetitive Peak Reverse Voltage	V _{RRM}	V	200
Reverse D.C. Voltage	V _{R(DC)}	V	200

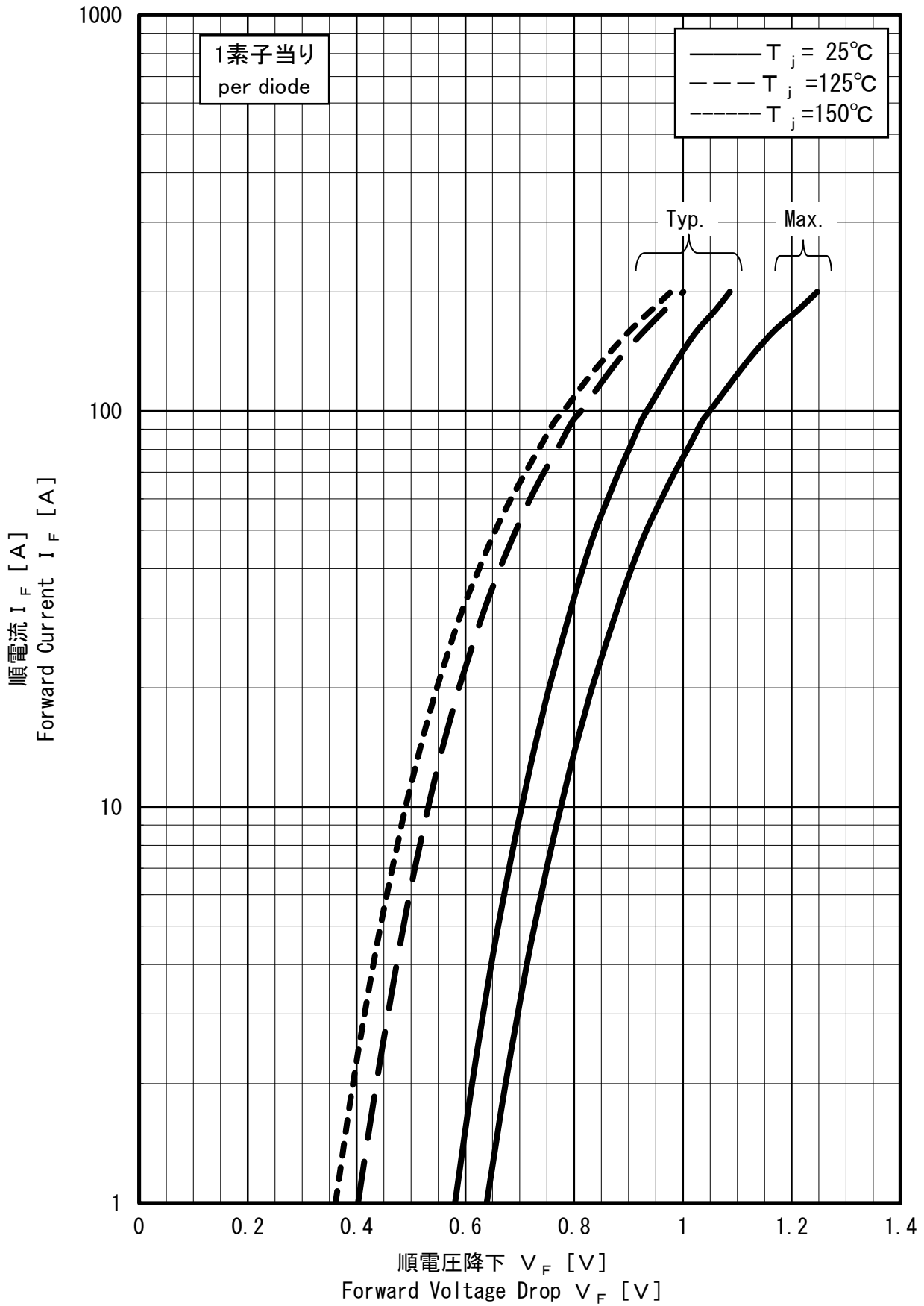
Item	Symbol	Unit	Ratings	Conditions
Average Forward Current	I _{F(AV)}	A	100	D.C., T _C =97°C
Surge Forward Current	I _{FSM}	A	1000/1100	1/2cycle, 60Hz, Peak value, non-repetitive
I ² t(for fusing)	I ² t	A ² s	5000	Value for one cycle surge current
Junction Temperature	T _j	°C	-40~+150	
Storage Temperature	T _{stg}	°C	-40~+150	
Isolation Voltage(R.M.S.)	V _{ISO}	V	2500	A.C. 1minute
Mounting torque	Mounting M4	N·m (kgf·cm)	1.5	Recommended Value 1.0~1.4
	Terminal M4		1.5	Recommended Value 1.0~1.4
Mass		g	30	Typical value

■ Electrical Characteristics

(T_j=25°C unless otherwise specified, per diode)

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Reverse Current	I _R	mA			10.0	V _R =V _{RRM} , T _j =150°C
Forward Voltage Drop	V _F	V		0.95	1.05	I _F =100A, Inst. measurement
Reverse Recovery Time	t _{rr}	ns		50	60	I _F =100A, V _R =100V, -di/dt=200A/μs
Reverse Recovery Peak Current	i _{rr}	A		5.0	6.5	
Reverse Recovery Charge	Q _{rr}	nC		150	195	
Reverse Recovery Time	t _{rr}	ns		75		I _F =100A, V _R =100V, -di/dt=200A/μs T _j =150°C
Reverse Recovery Peak Current	i _{rr}	A		10.5		
Reverse Recovery Charge	Q _{rr}	nC		430		
Thermal Resistance	R _{th(j-c)}	°C/W			0.5	Junction to case

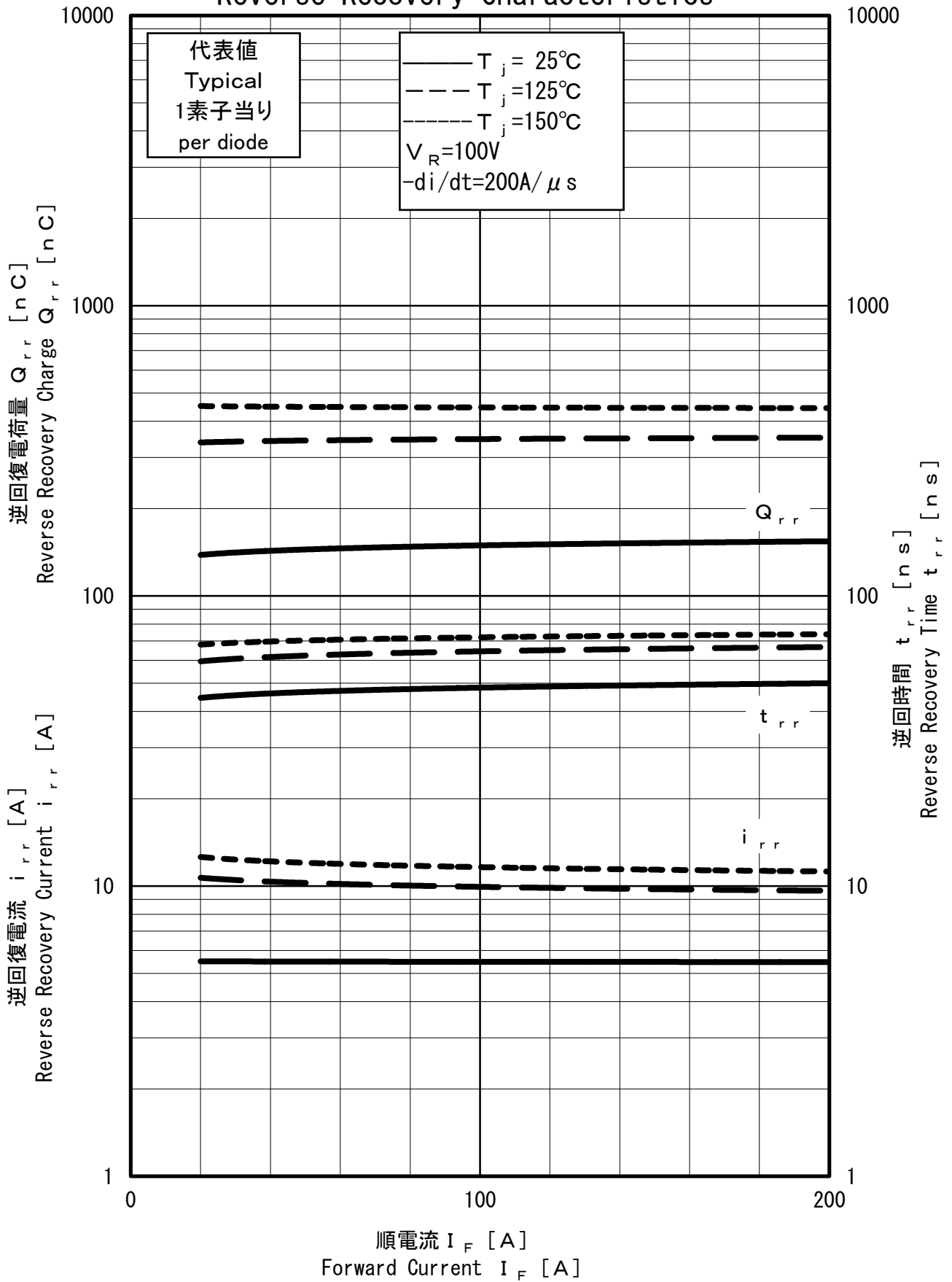
DBA200XA20
 順特性
 Forward Characteristics



DBA200XA20

逆回復特性

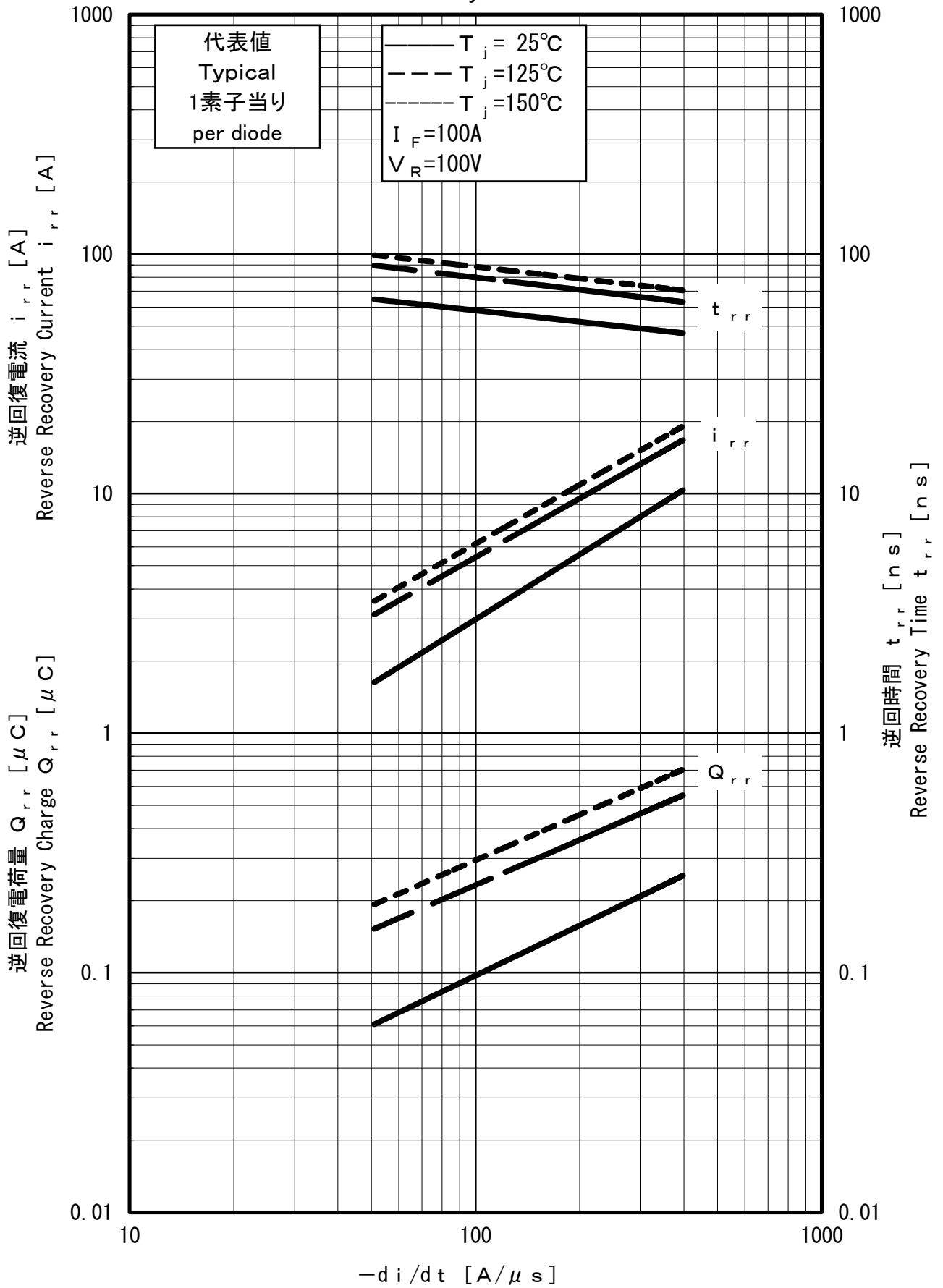
Reverse Recovery Characteristics



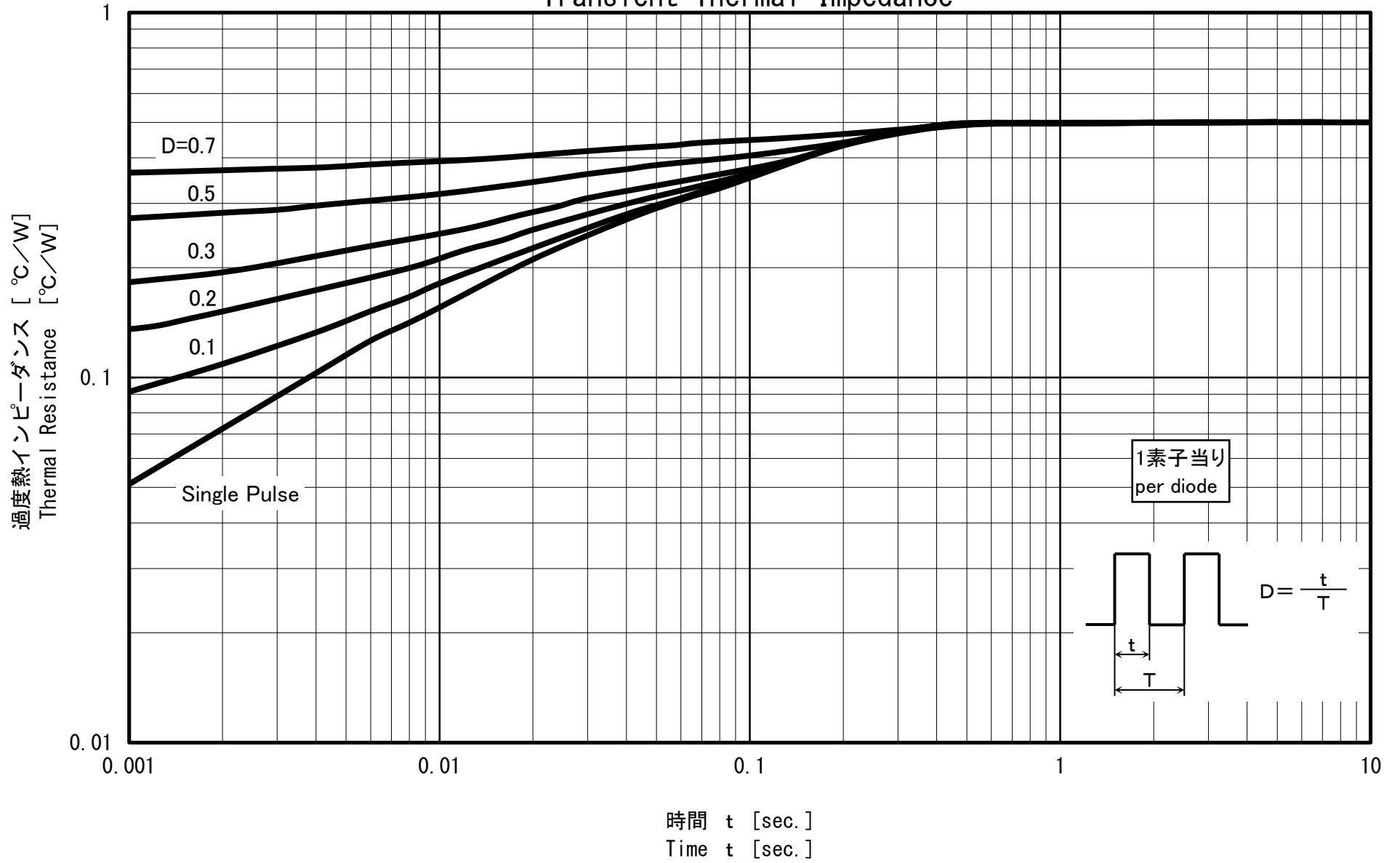
DBA200XA20

逆回復特性

Reverse Recovery Characteristics



DBA200XA20
 過渡熱インピーダンス特性
 Transient Thermal Impedance



DBA200XA20

サージ順電流耐量《非繰り返し》

Cycle Surge Forward Current Rating 《Non-Repetitive》

