

1A 200V

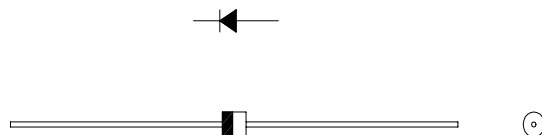
SBD Type : 10EHA20

■OUTLINE DRAWING

構造 : ショットキバリア・ダイオード (SBD)
リード線型

Construction: Schottky barrier Diode
Axial Lead Type

用途 : 高周波整流用
Application: High Frequency Rectification



■最大定格 / Maximum Ratings

Approx Net Weight:0.17g

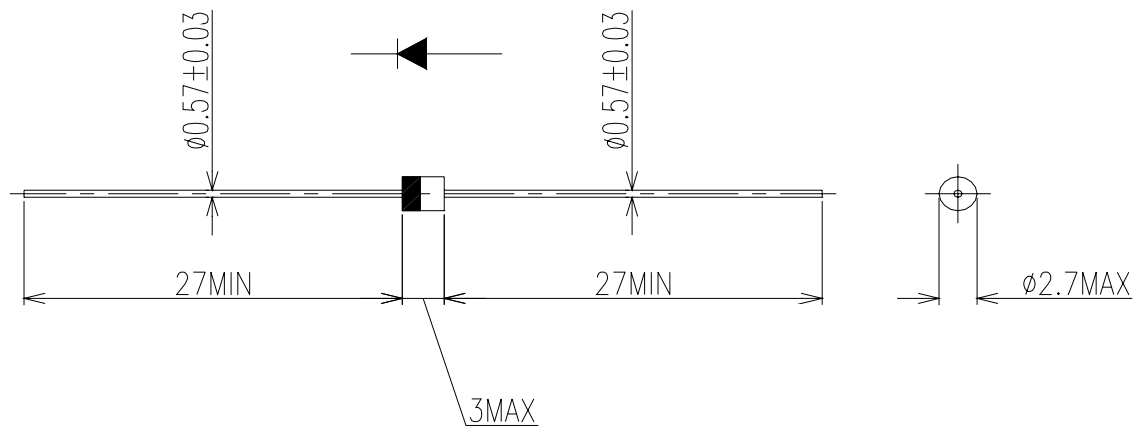
Rating	Symbol	10EHA20			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	200			V
平均整流電流 Average Rectified Output Current	I _O	1.0	Ta=40℃	50Hz, 正弦半波通電 Half Sine Wave 抵抗負荷 Resistive Load	A
		0.9	Ta=25℃		
実効順電流 RMS Forward Current	I _{F(RMS)}	1.57			A
サージ順電流 Surge Forward Current	I _{FSM}	20	50Hz 正弦半波, 1サイクル, 非くり返し Half Sine Wave, 1cycle, Non-repetitive		A
動作接合温度範囲 Operating Junction Temperature Range	T _{jW}	- 40 ~ + 150			℃
保存温度範囲 Storage Temperature Range	T _{stg}	- 40 ~ + 150			℃

■電氣的・熱的特性 / Electrical/Thermal Characteristics

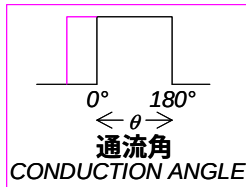
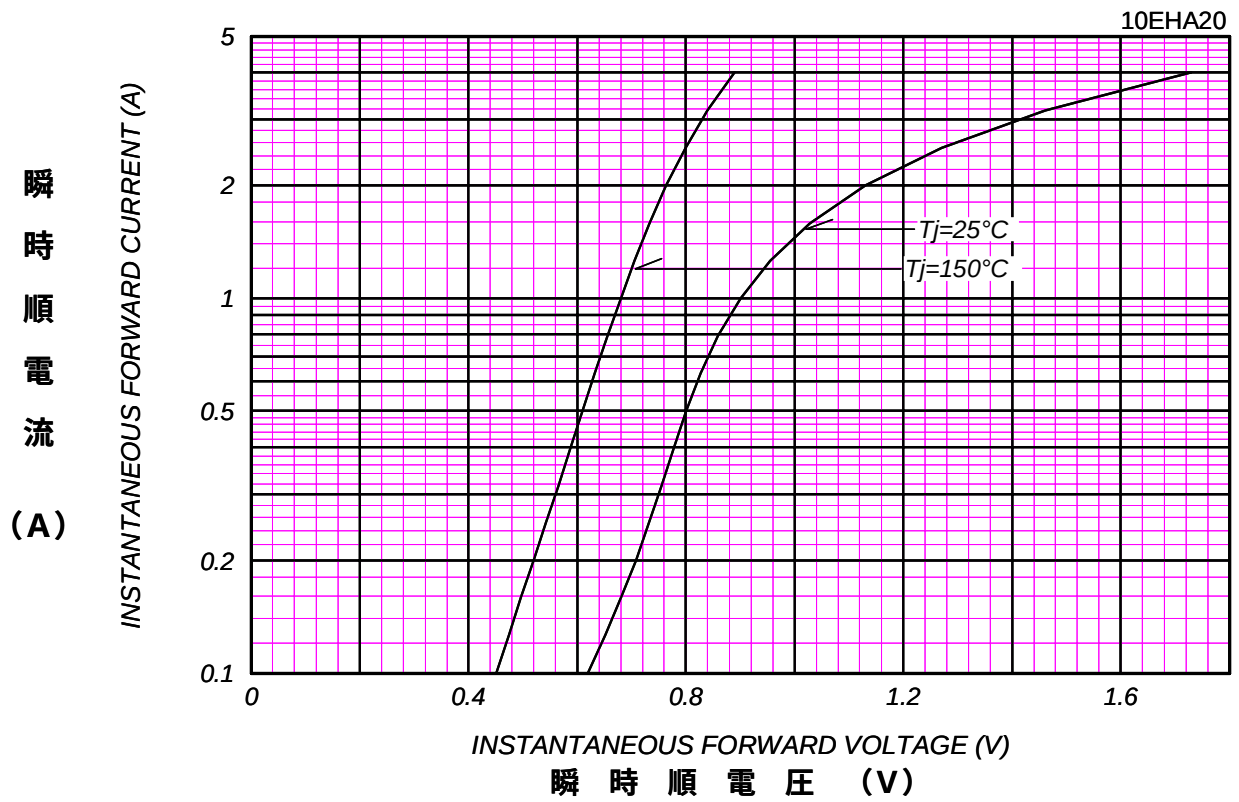
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	Tj= 25 °C, $V_{RM}= V_{RRM}$	-	-	200	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	Tj= 25 °C, $I_{FM}= 1 A$	-	-	0.90	V
熱抵抗 Thermal Resistance	Rth(j-a)	P.C.Board mounted*	-	-	110	°C/W
		Without P.C.Board mounted	-	-	140	

*:Print Lands =5 x 5mm,Both sides

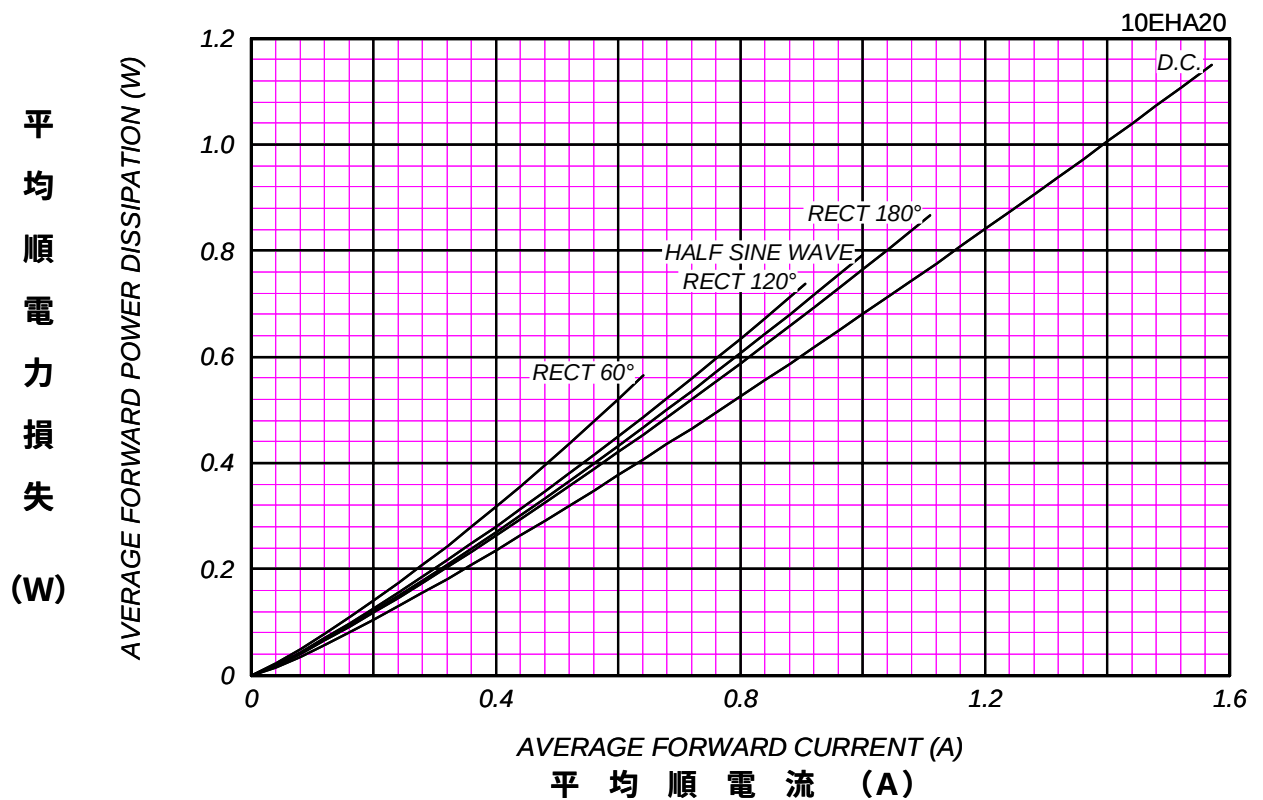
10EHA_外形図 (mm)



順電壓特性 FORWARD CURRENT VS. VOLTAGE

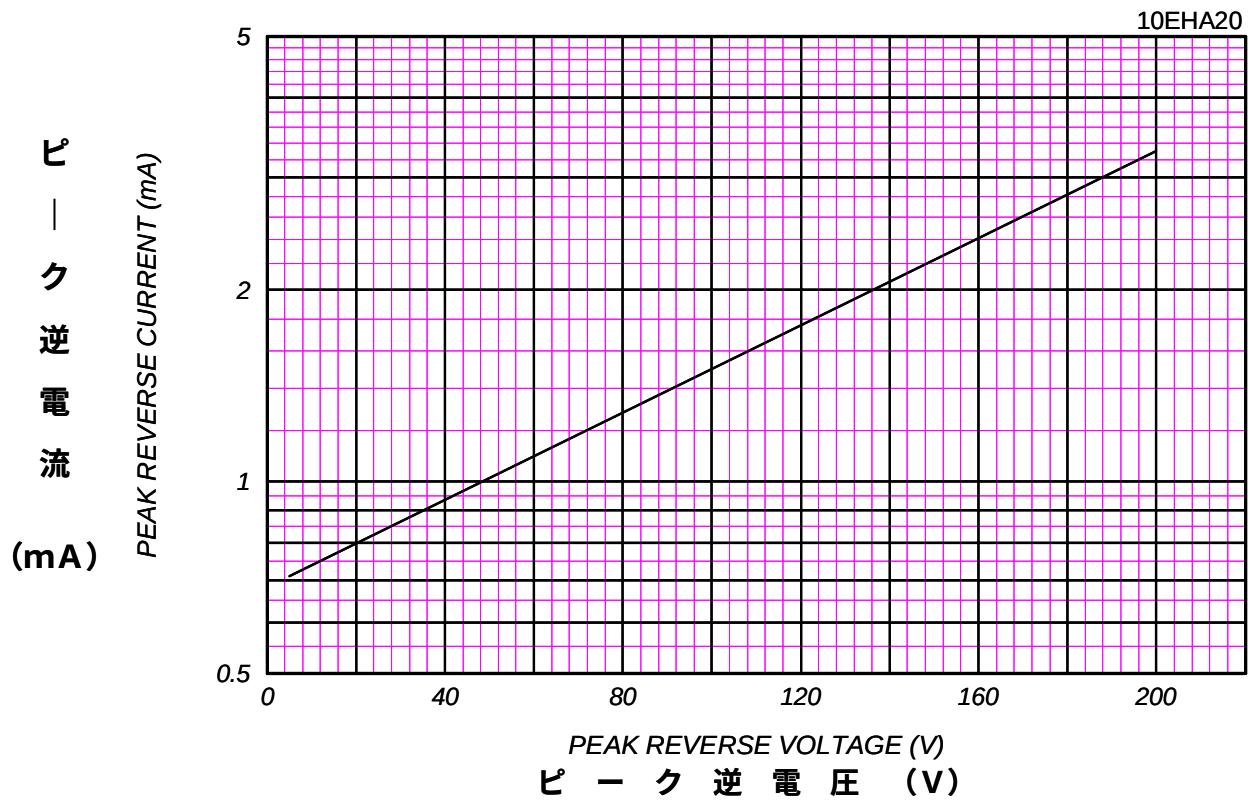


平均順電力損失特性 AVERAGE FORWARD POWER DISSIPATION

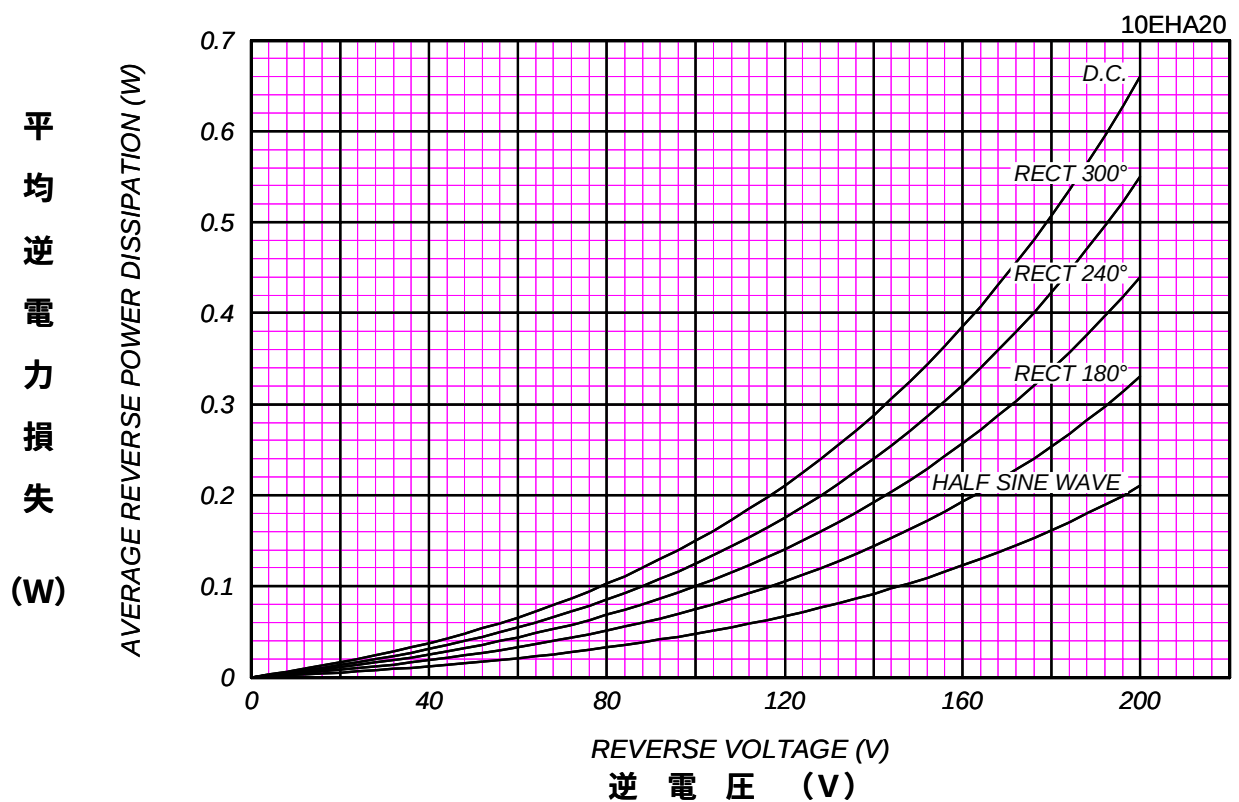


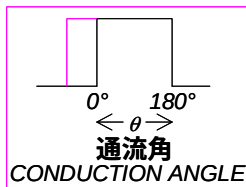
ピーク逆電流 — ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

$T_j = 150^\circ\text{C}$



平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION



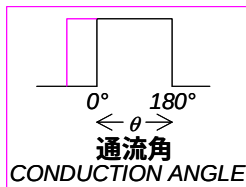
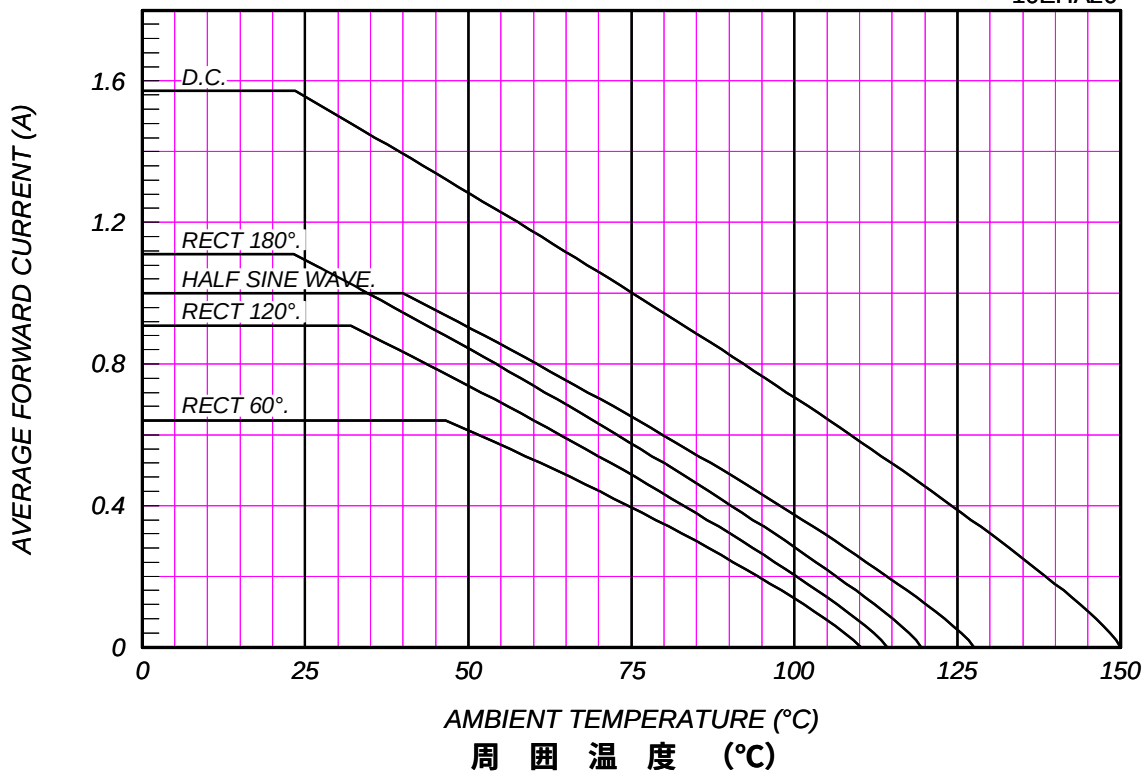


平均順電流 - 周圍溫度定格 AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=3mm, Print Land=5×5mm), $V_{RM}=200V$

10EHA20

平均順電流
(A)

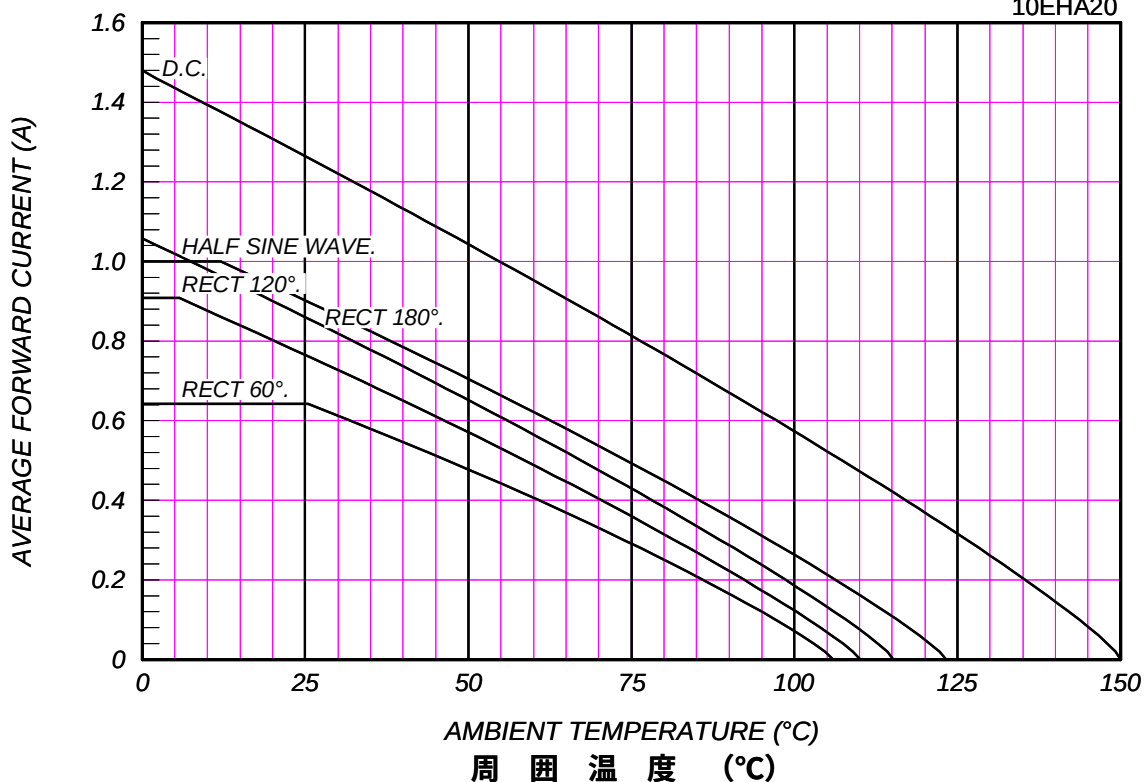


平均順電流 - 周圍溫度定格 AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board, $V_{RM}=200V$

10EHA20

平均順電流
(A)



サージ順電流定格

SURGE CURRENT RATINGS

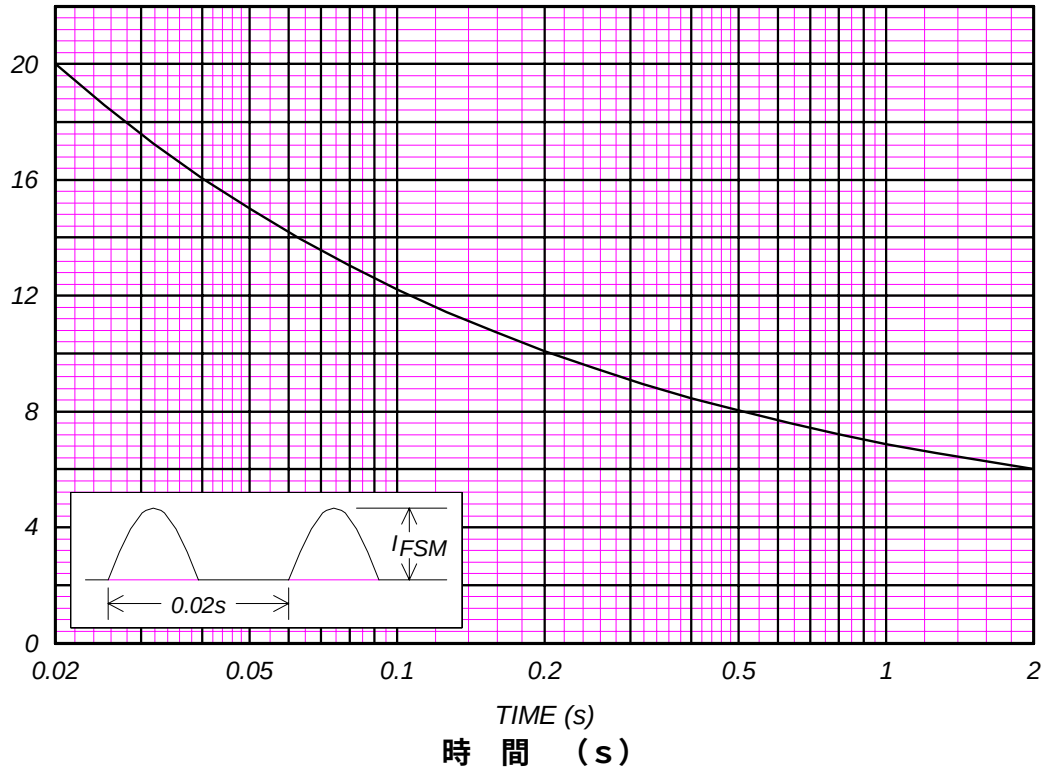
f=50Hz, Half Sine Wave 1cycle, Non-repetitive, No Load

10EHA20

サ
ー
ジ
順
電
流

(A)

SURGE FORWARD CURRENT (A)



接合容量特性

JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25°C, Vm=20mV_{RMS}, f=100kHz, Typical Value

10EHA20

接
合
容
量

(pF)

JUNCTION CAPACITANCE (pF)

