

2A 200V

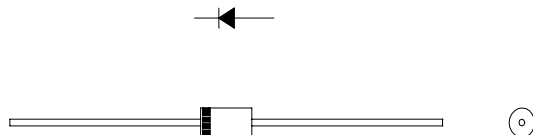
SBD Type : 20KHA20

■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:0.38g

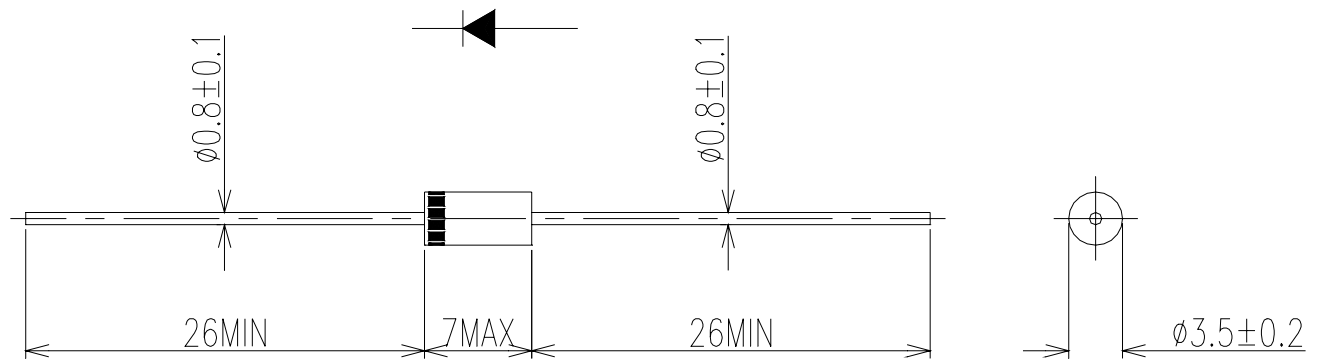
Rating	Symbol	20KHA20			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	200			V
平均整流電流 Average Rectified Output Current	I _O	2.0	Tl=115℃ Tl=Lead Temperature	50Hz, 正弦半波通電 Half Sine Wave 抵抗負荷 Resistive Load	A
		1.6	Ta=36℃		
実効順電流 RMS Forward Current	I _{F(RMS)}	3.14			A
サージ順電流 Surge Forward Current	I _{FSM}	40	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	Tj _W	- 40 ~ + 150			℃
保存温度範囲 Storage Temperature Range	Tstg	- 40 ~ + 150			℃

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

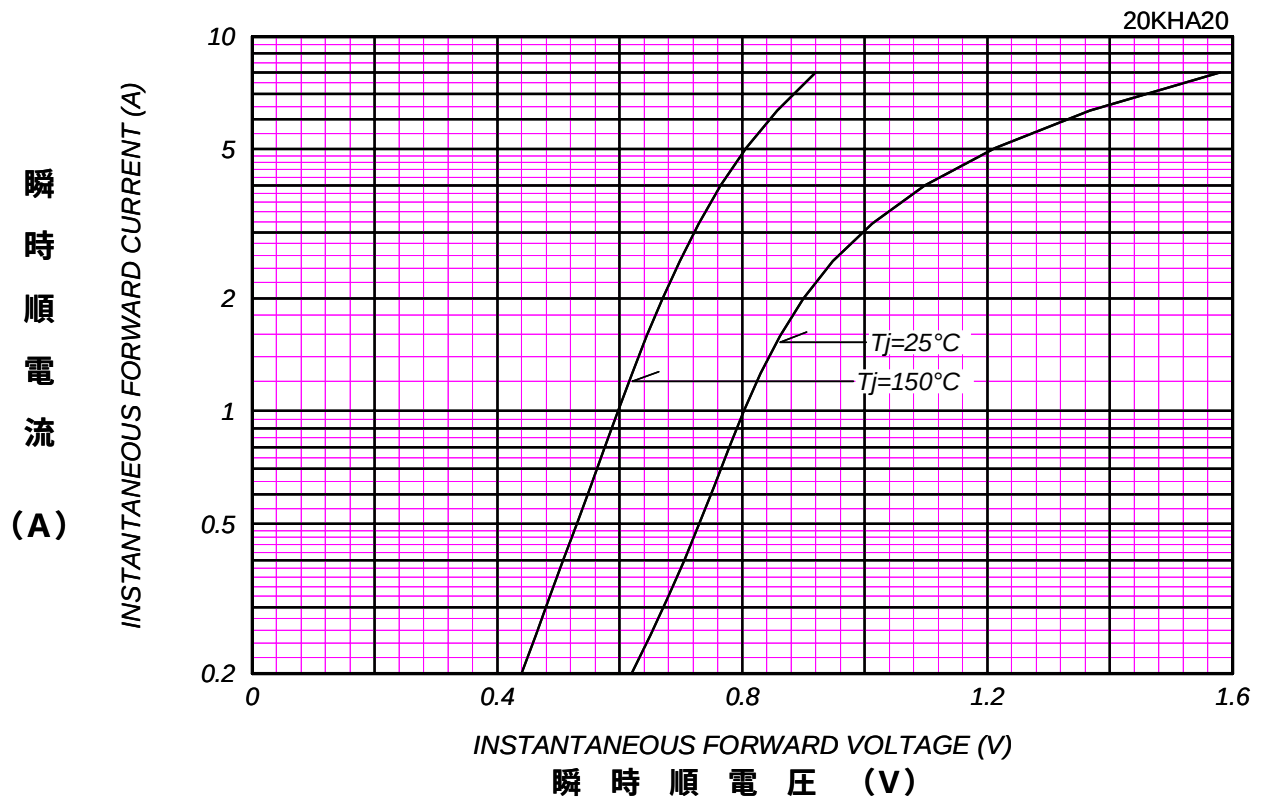
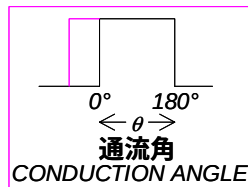
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}\text{C}$, $V_{RM} = V_{RRM}$	-	-	200	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 2\text{ A}$	-	-	0.90	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・リード間 Junction to Lead	-	-	17	$^{\circ}\text{C/W}$
		接合部・周囲間 * Junction to Ambient	-	-	70	

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

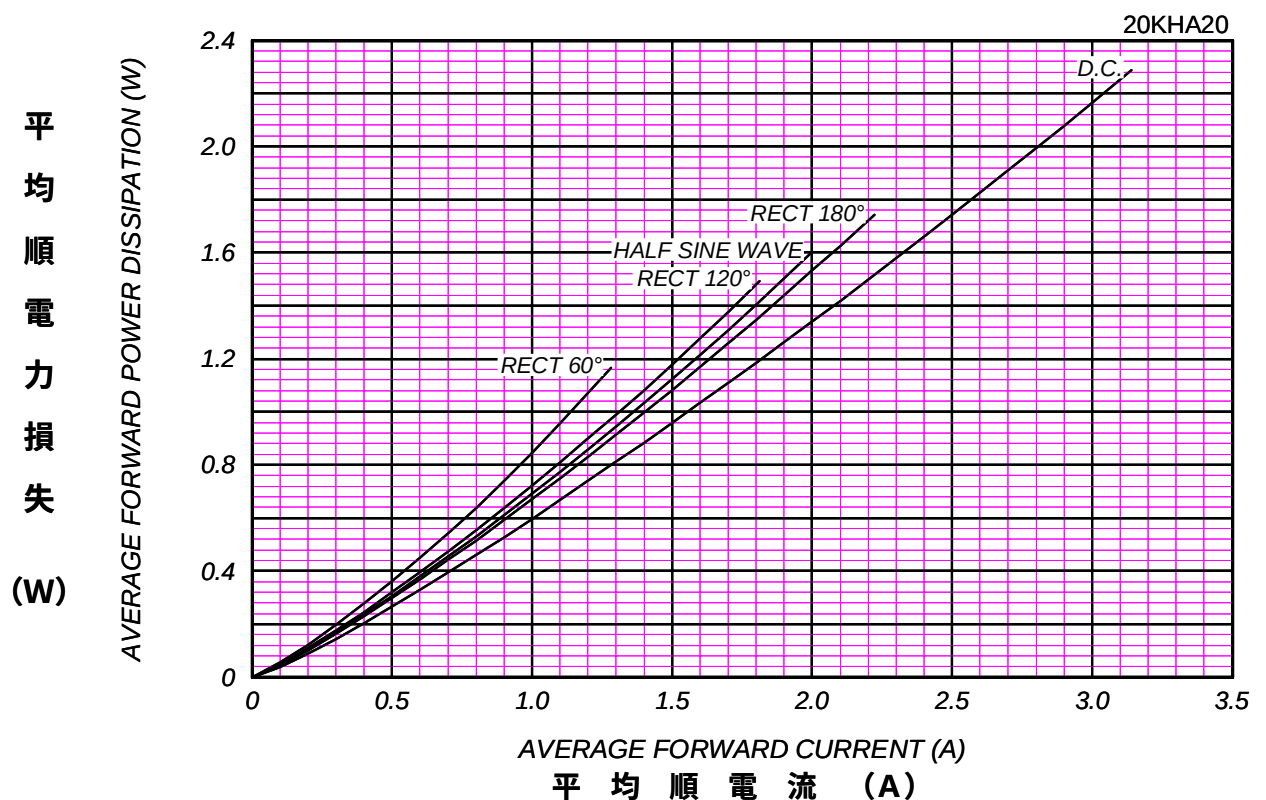
20KHA_外形図 (mm)



順電壓特性 FORWARD CURRENT VS. VOLTAGE



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

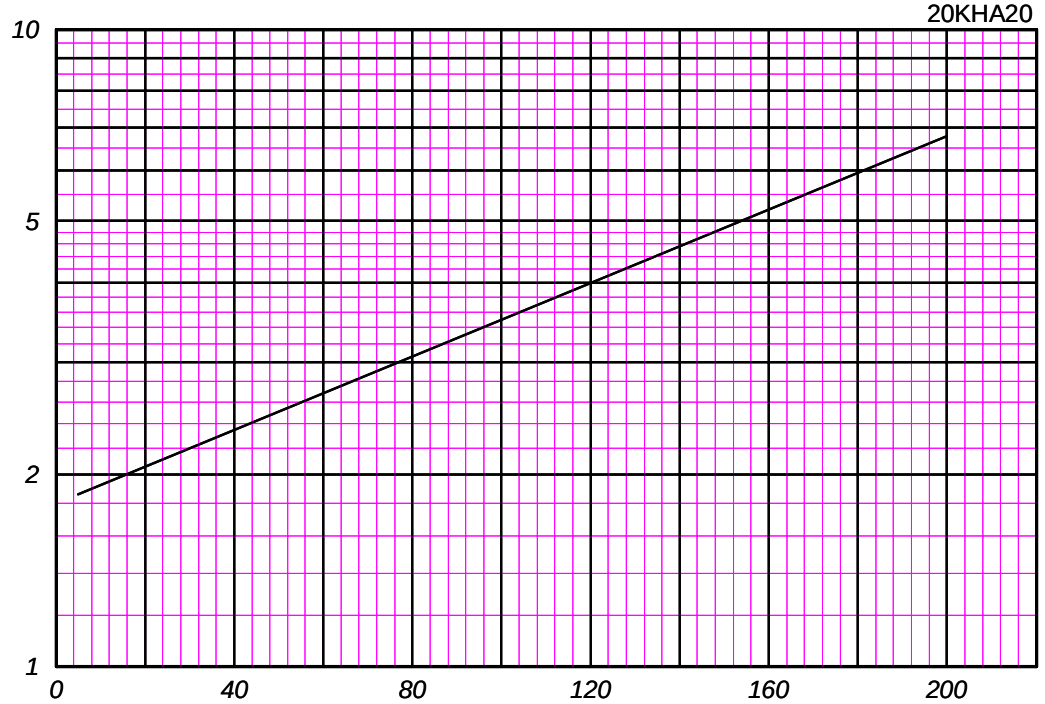


ピーク逆電流 – ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

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

ピーク逆電流
(mA)

PEAK REVERSE CURRENT (mA)

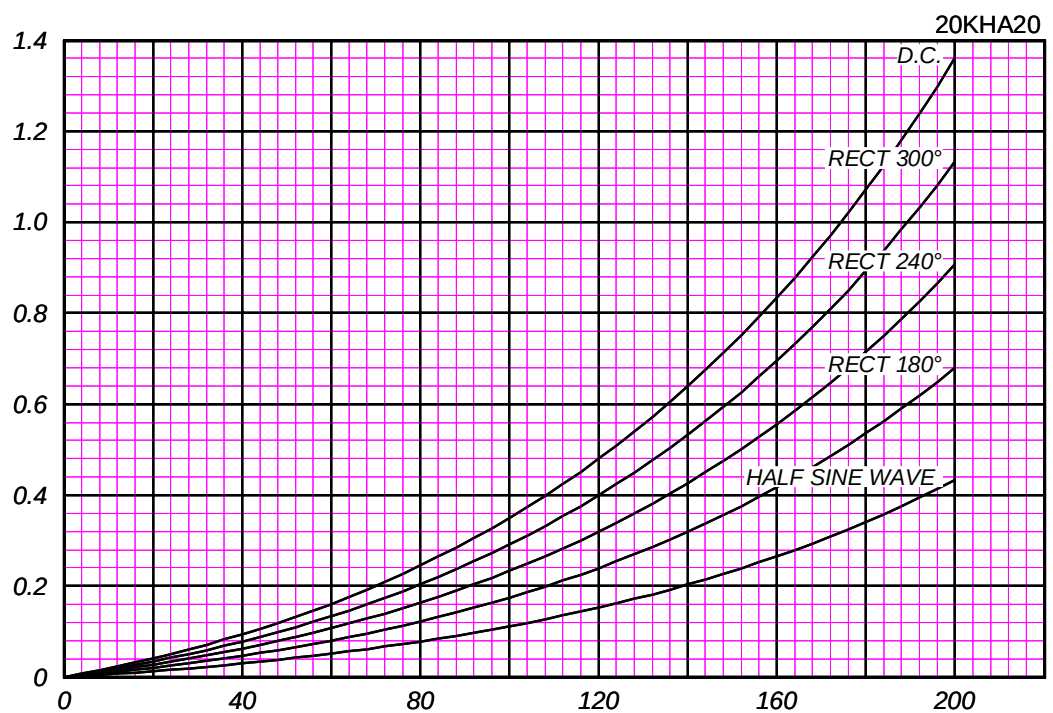


PEAK REVERSE VOLTAGE (V)
ピーク逆電圧 (V)

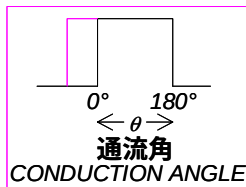
平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

平均逆電力損失
(W)

AVERAGE REVERSE POWER DISSIPATION (W)



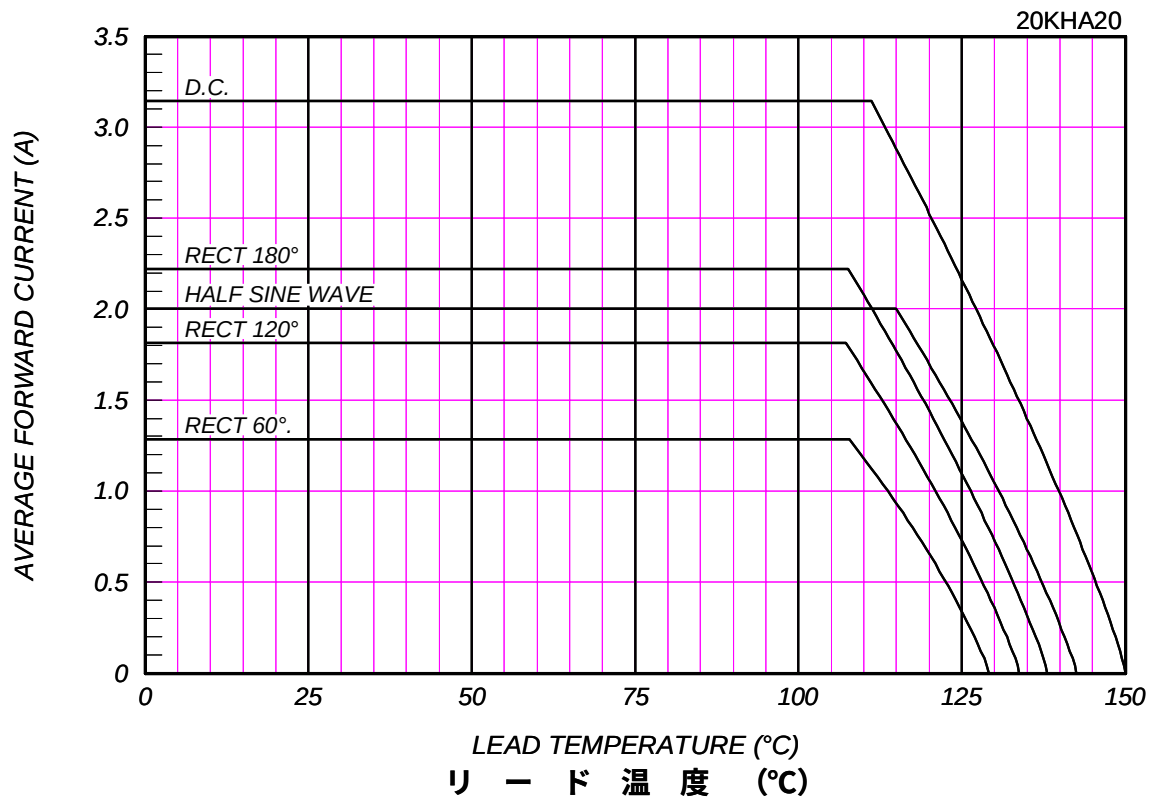
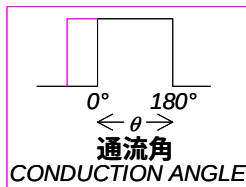
REVERSE VOLTAGE (V)
逆電圧 (V)



平均順電流－リード温度定格 AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=200V$

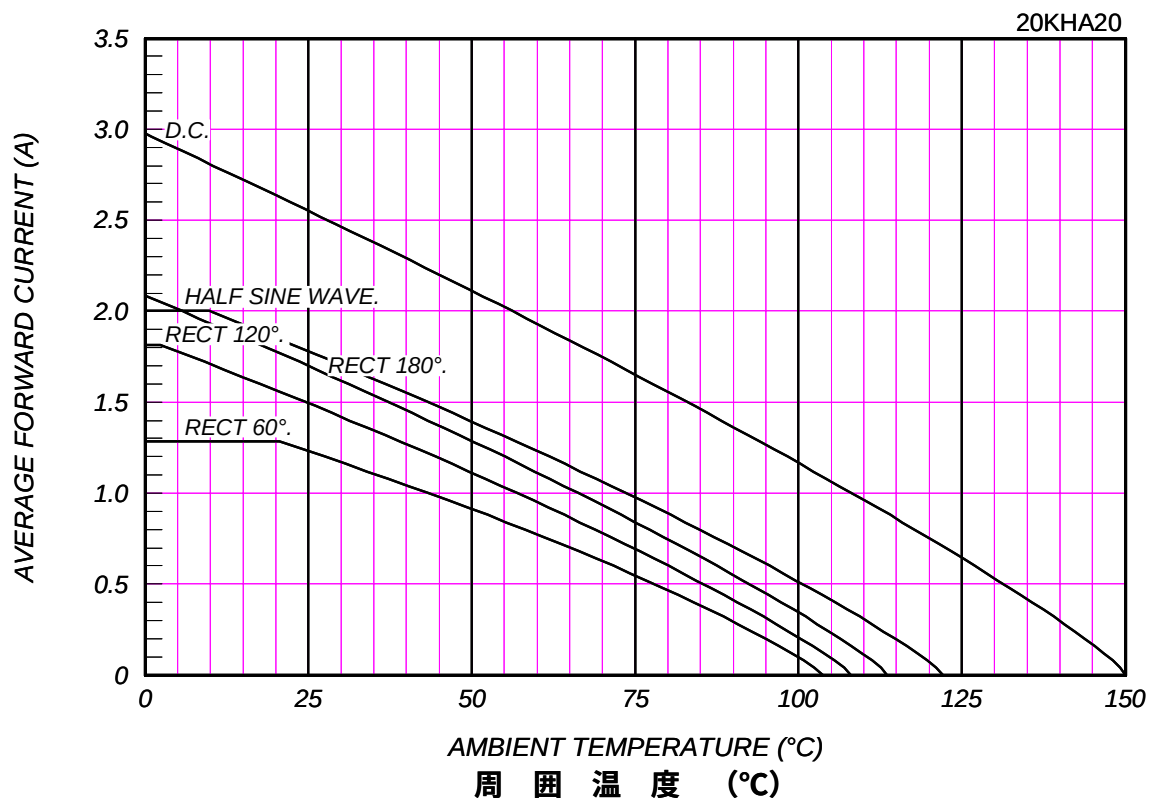
平均順電流
 (A)



平均順電流－周囲温度定格 AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without fin or P.C. board, $V_{RM}=200V$

平均順電流
 (A)



サージ順電流定格 SURGE CURRENT RATINGS

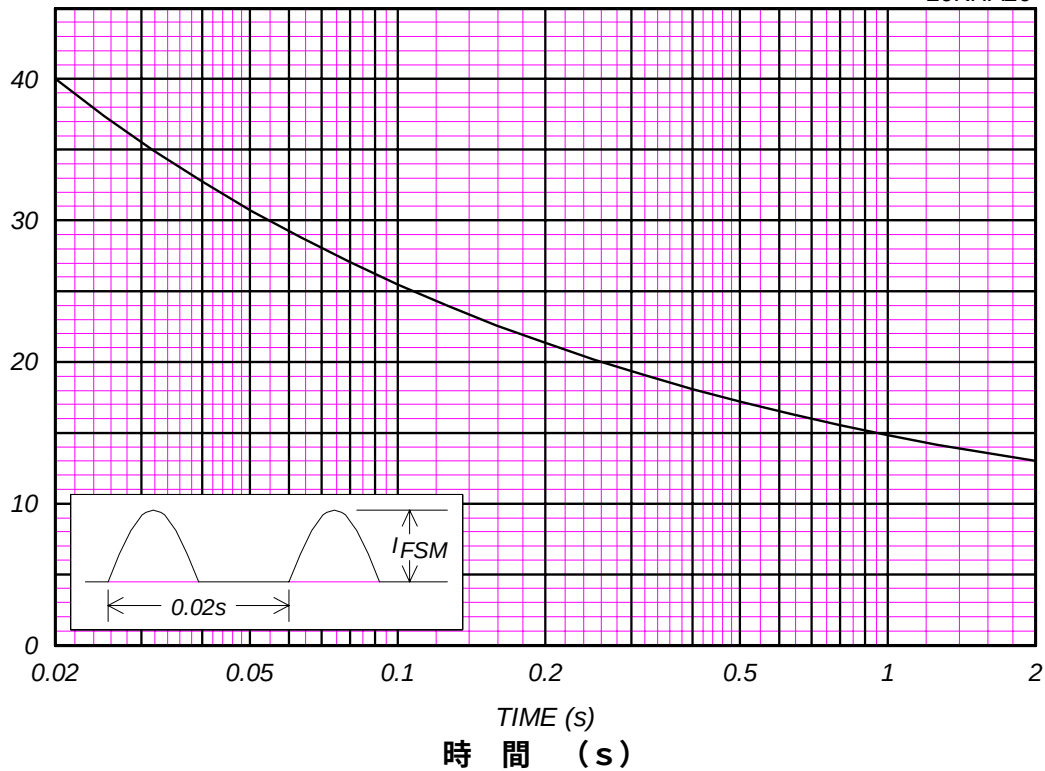
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

20KHA20

サ
ー
ジ
順
電
流

(A)

SURGE FORWARD CURRENT (A)



接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T_j=25°C, V_m=20mV_{RMS}, f=100kHz, Typical Value

20KHA20

接
合
容
量

(pF)

JUNCTION CAPACITANCE (pF)

