

2A 200V

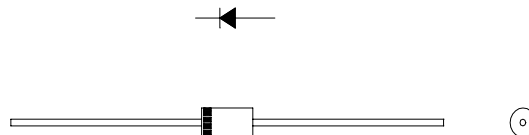
SBD Type : 20KHA20

■ OUTLINE DRAWING

構造 : ショットキバリア・ダイオード (S B D)
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

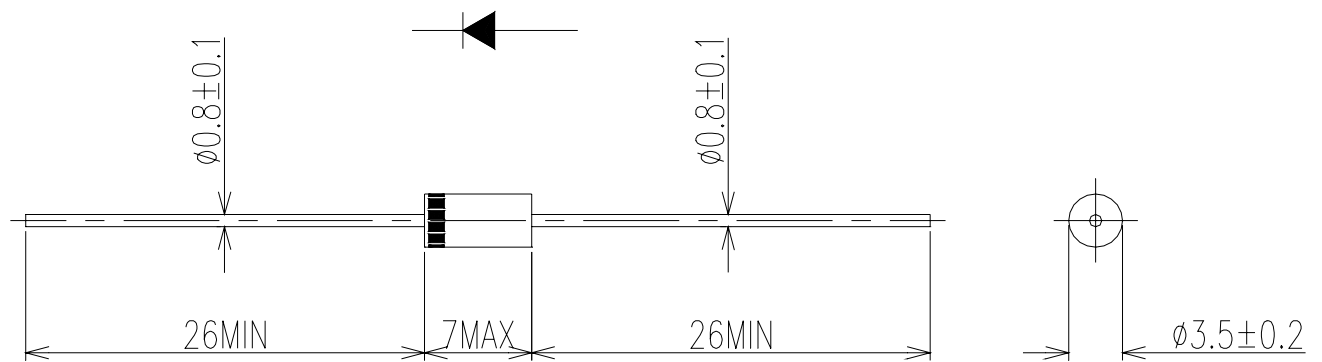
Rating	Symbol	20KHA20			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	200			V
平均整流電流 Average Rectified Output Current	I _o	2.0	TI=115 TI=Lead Temperature	50Hz, 正弦半波通電 Half Sine Wave 抵抗負荷 Resistive Load	A
		1.6	Ta=36		
実効順電流 RMS Forward Current	I _{F(RMS)}	3.14			A
サージ順電流 Surge Forward Current	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	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

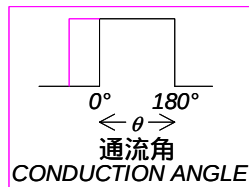
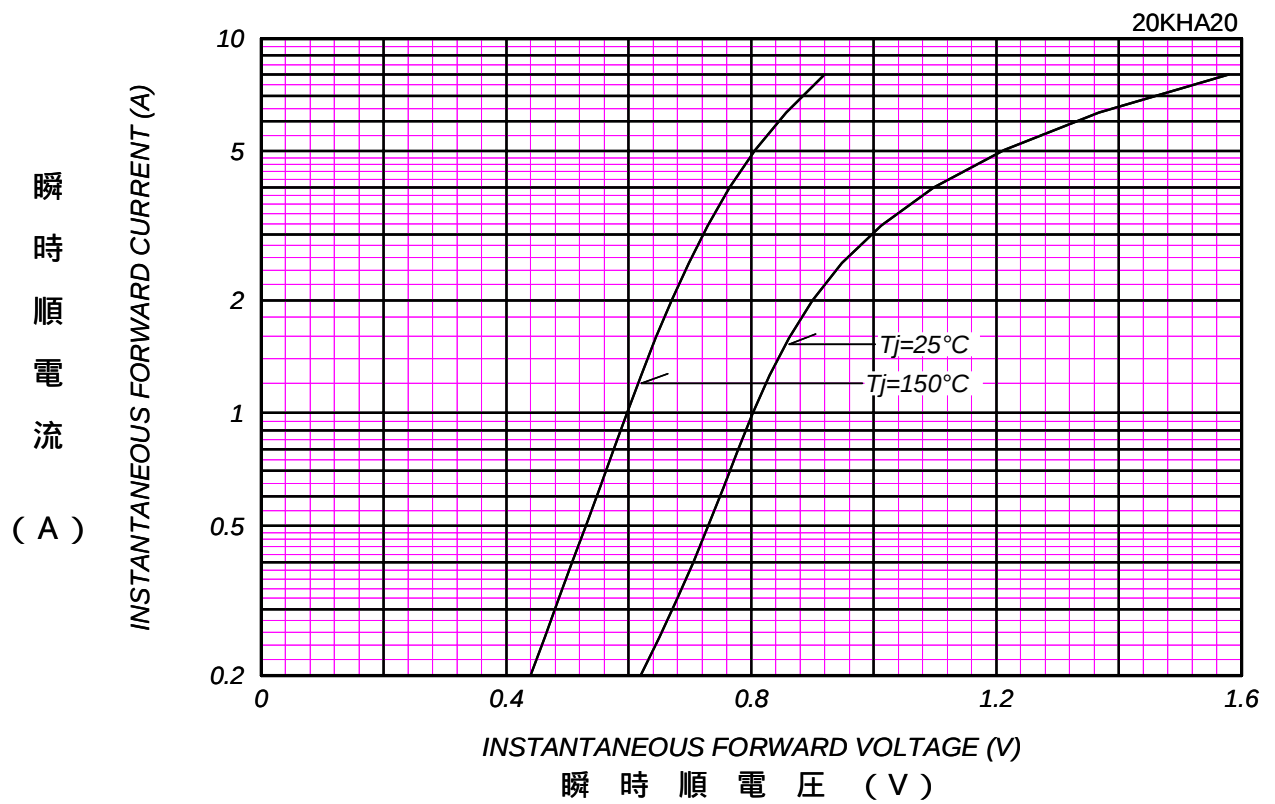
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j = 25$, $V_{RM} = V_{RRM}$	-	-	200	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j = 25$, $I_{FM} = 2 A$	-	-	0.90	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・リード間 Junction to Lead	-	-	17	/W
		接合部・周囲間 * Junction to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

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

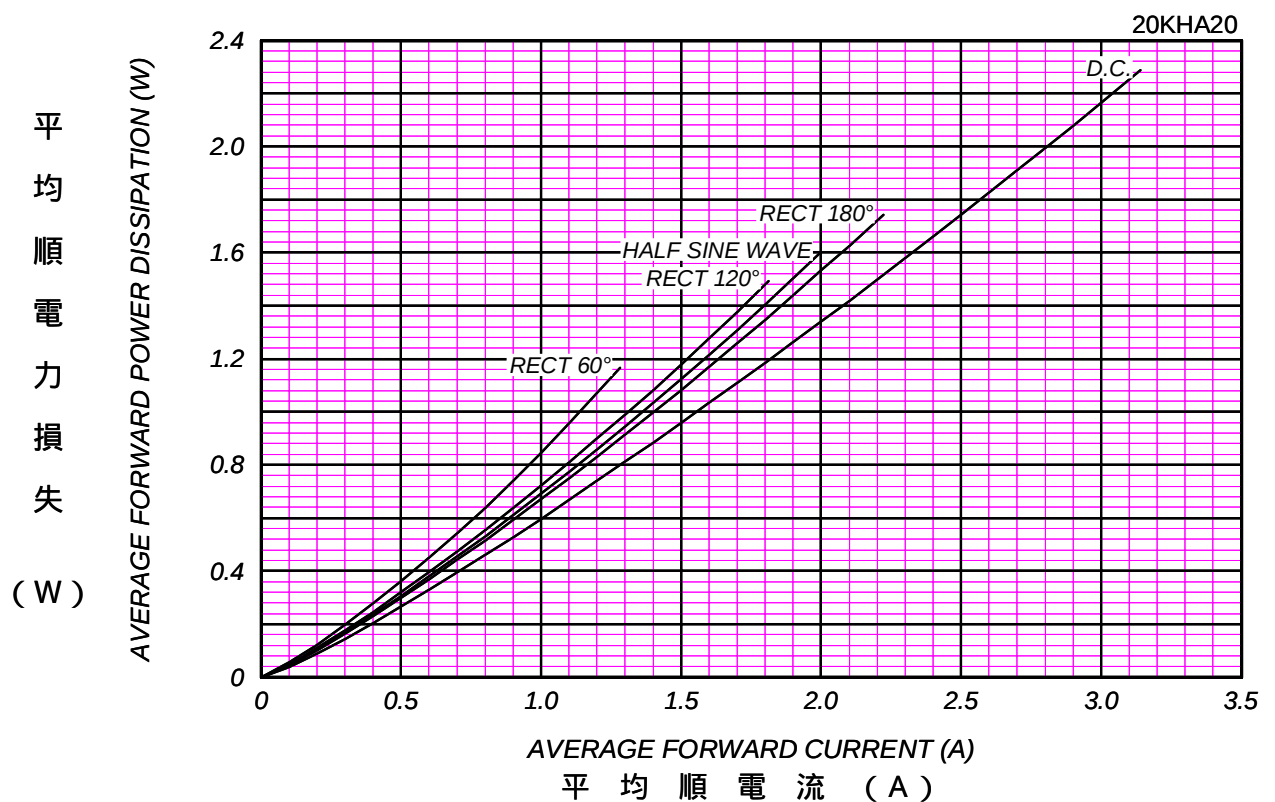
20KHA_外形図 (mm)



順電壓特性 FORWARD CURRENT VS. VOLTAGE

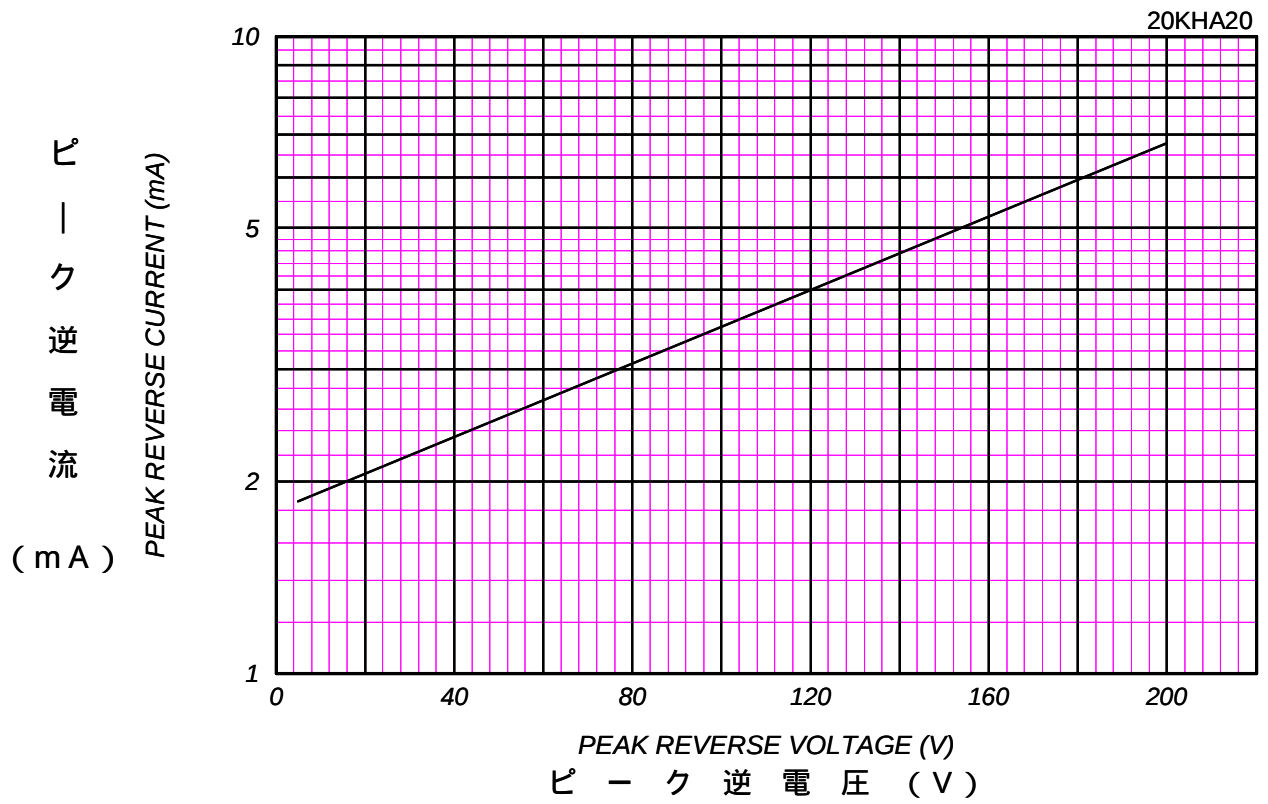


平均順電力損失特性 AVERAGE FORWARD POWER DISSIPATION

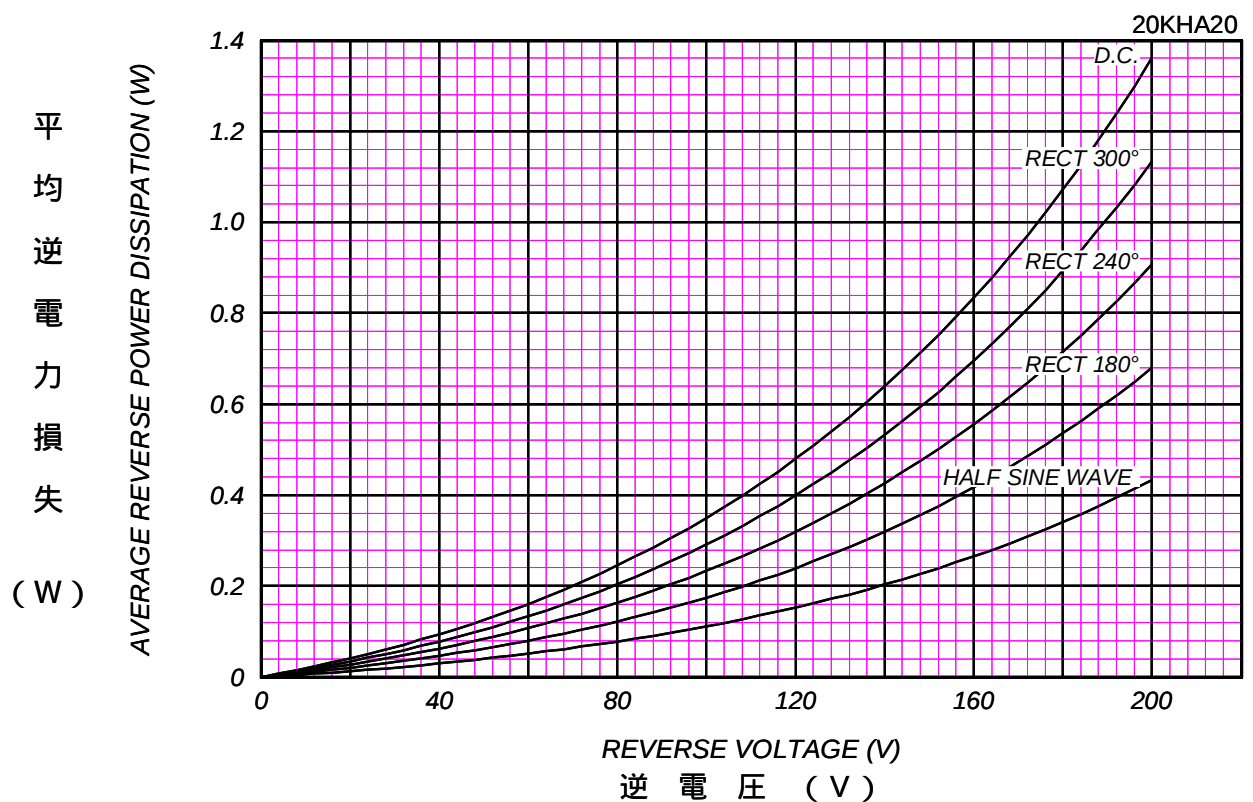


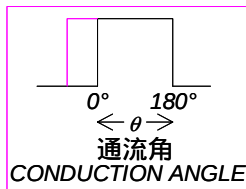
ピーク逆電流 - ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

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



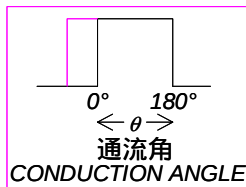
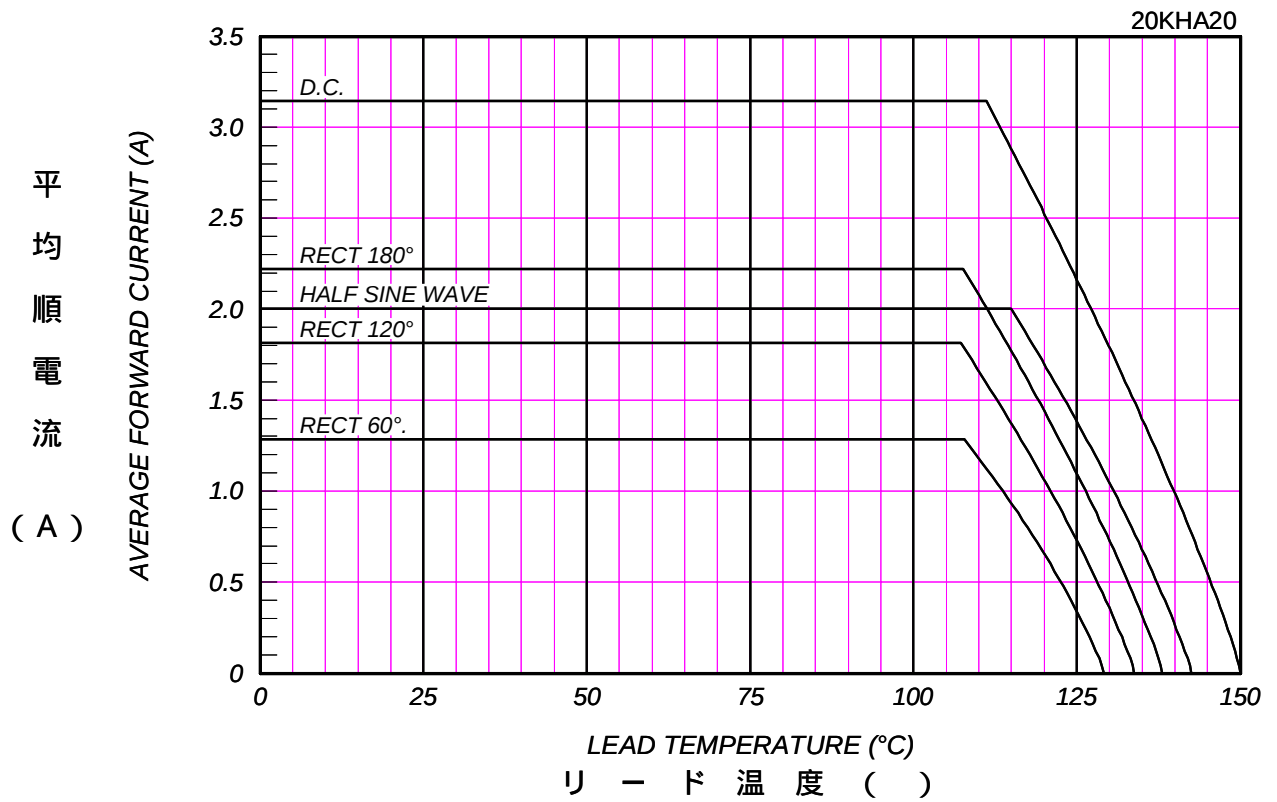
平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION





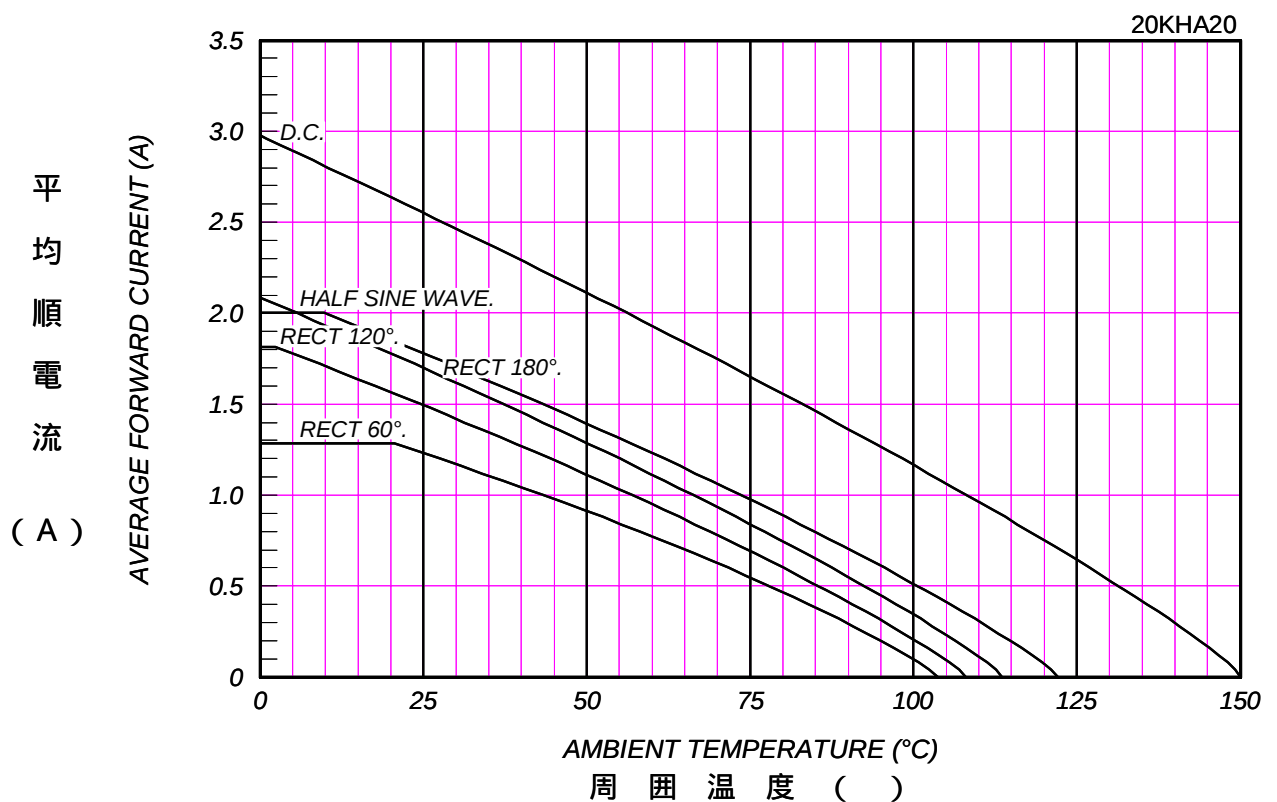
平均順電流 - リード温度定格 AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=200V$



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

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



サージ順電流定格 SURGE CURRENT RATINGS

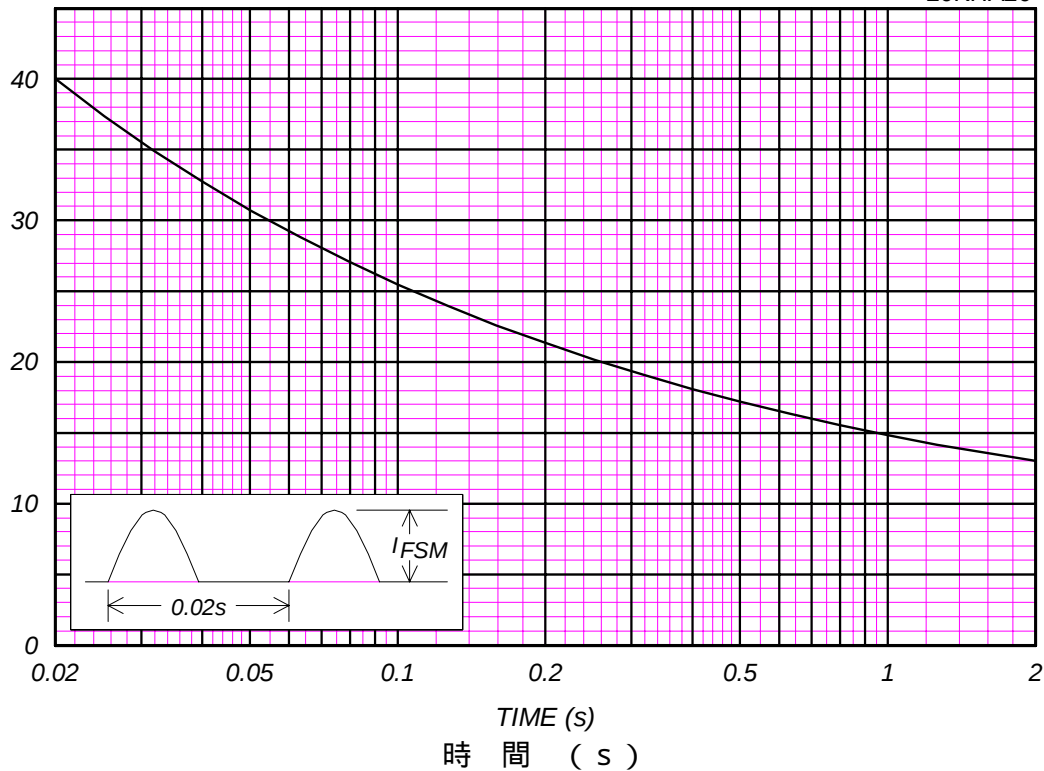
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

20KHA20

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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

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(p F)

JUNCTION CAPACITANCE (pF)

