

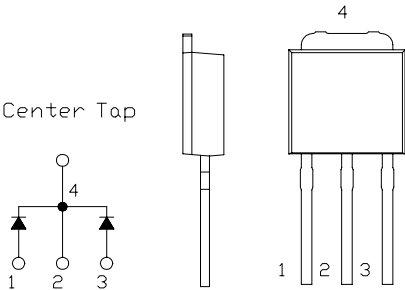
6A 200V

SBD Type：ECH06A20

■OUTLINE DRAWING

構造 : ショットキーバリアダイオード(SBD)
 Construction: Schottky barrier Diode
 カソード コモン型

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



■最大定格 / Maximum Ratings

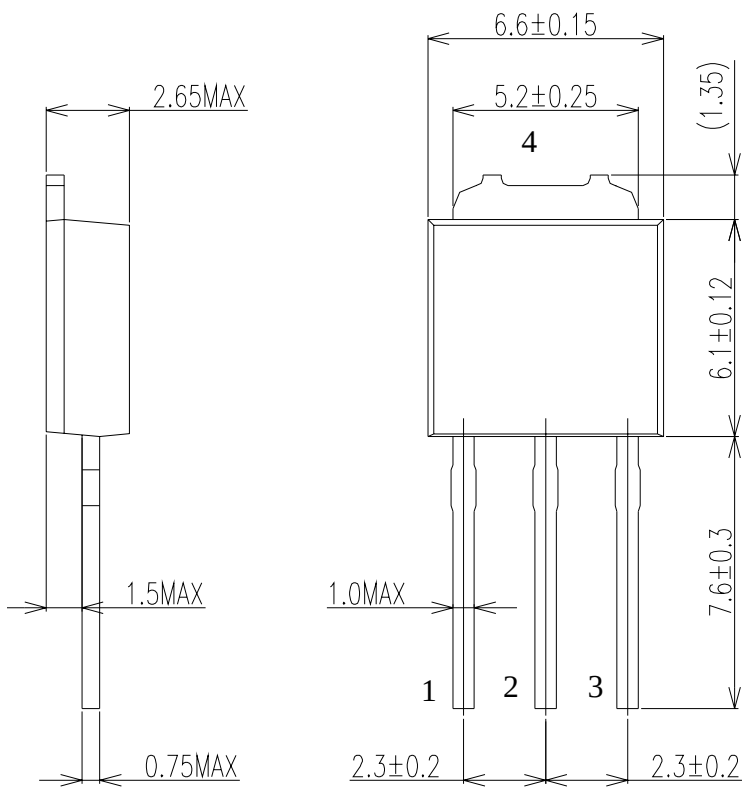
Approx Net Weight:0.35g

Rating	Symbol	ECH06A20			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_0	6.0	$T_c=116^{\circ}C$	50 Hz, 正弦全波通電、抵抗負荷 Full Sine Wave Resistive Load	A
		1.0	$T_a=50^{\circ}C$	同上 基盤実装時 P.C.Board mounted	
実効順電流 RMS Forward Current	$I_{F(RMS)}$	6.66			A
サージ順電流 Surge Forward Current	I_{FSM}	60	50 Hz 正弦全波, 1サイクル, 非くり返し Full Sine Wave, 1cycle, Non-repetitive		A
動作接合温度範囲 Operating Junction Temperature Range	T_{jw}	- 40 ~ + 150			$^{\circ}C$
保存温度範囲 Storage Temperature Range	T_{stg}	- 40 ~ + 150			$^{\circ}C$

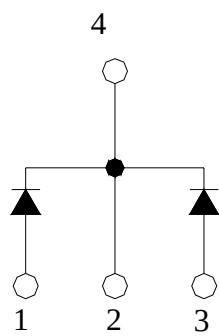
■電氣的・熱的特性 / Electrical・Thermal Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ per Diode	-	-	200	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}= 3A$ per Diode	-	-	0.90	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	-	-	5	$^{\circ}C/W$
	$R_{th(j-a)}$	接合部・周囲間 (基盤実装時) Junction to Ambient (with P.C.Board mounted)			80	

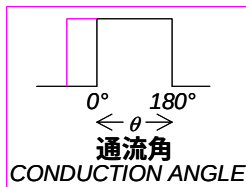
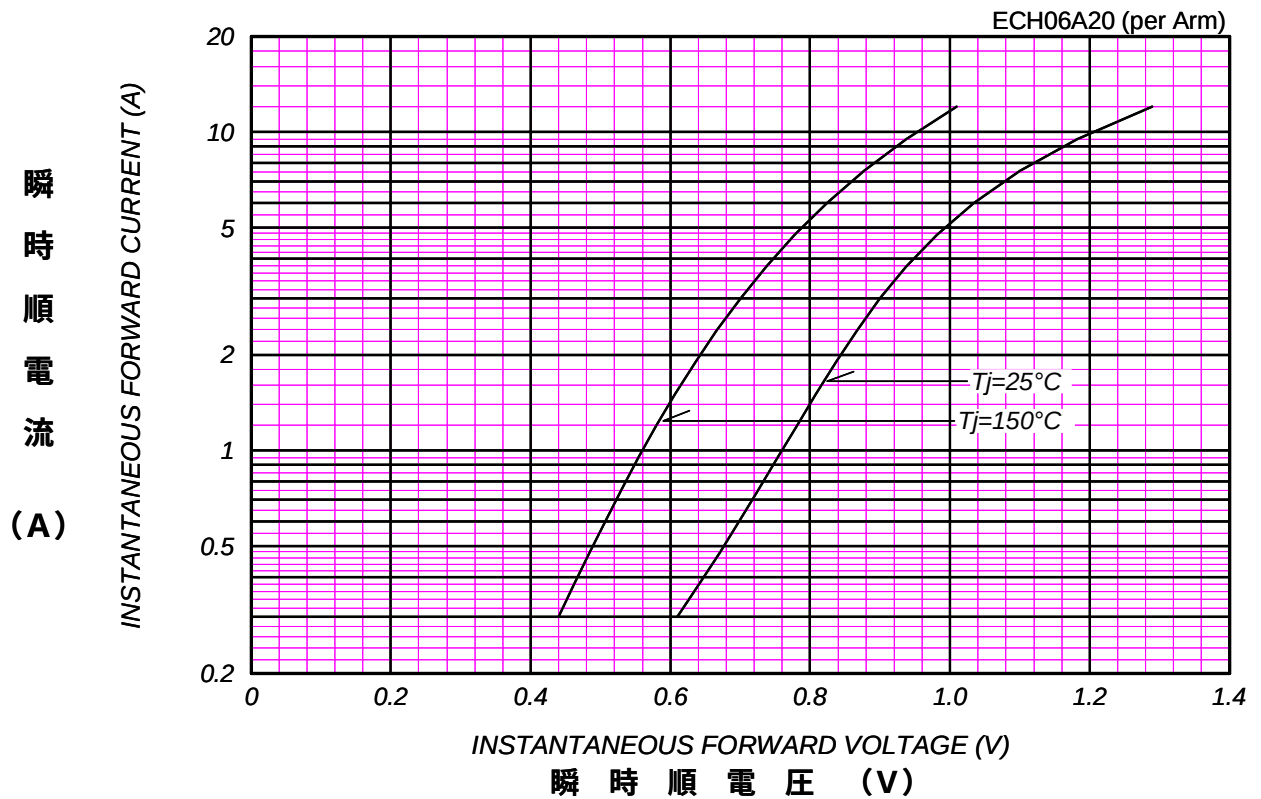
ECH06A*外形図 (mm)



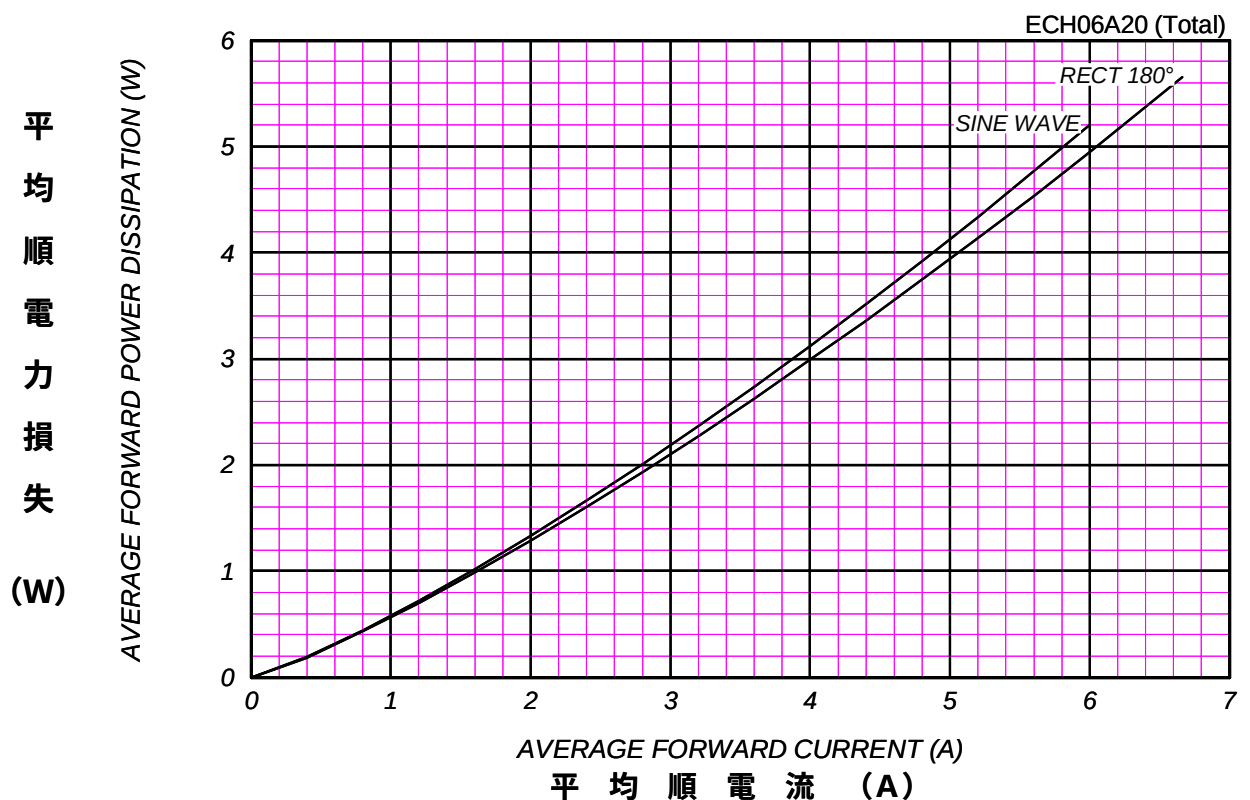
Center Tap



順電壓特性 FORWARD CURRENT VS. VOLTAGE



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

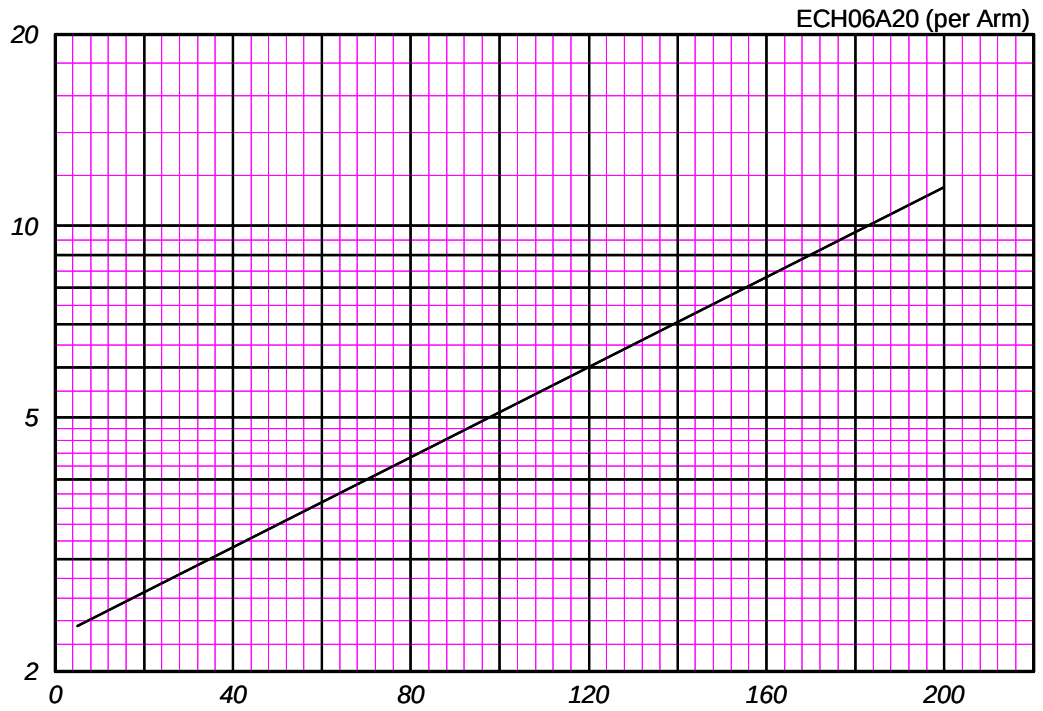


ピーク逆電流 — ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T_j = 150 °C

ピーク逆電流
(mA)

PEAK REVERSE CURRENT (mA)

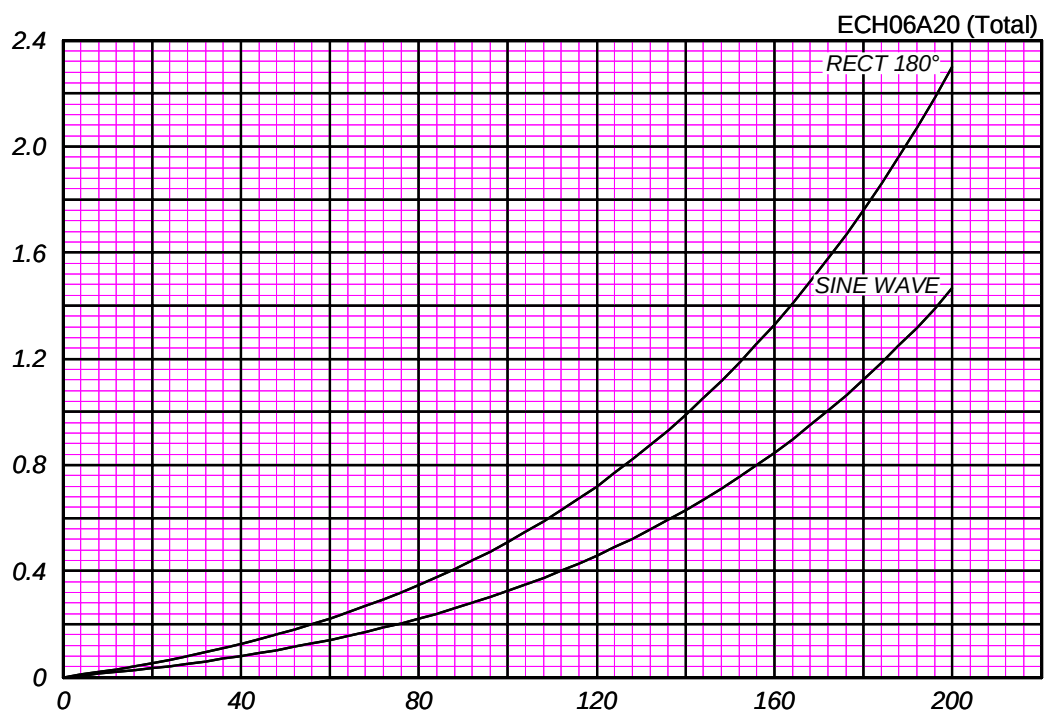


PEAK REVERSE VOLTAGE (V)
ピーク逆電圧 (V)

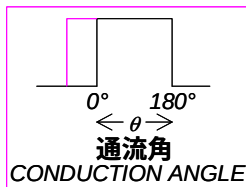
平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

平均逆電力損失
(W)

AVERAGE REVERSE POWER DISSIPATION (W)



REVERSE VOLTAGE (V)
逆電圧 (V)

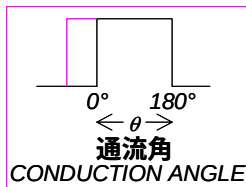
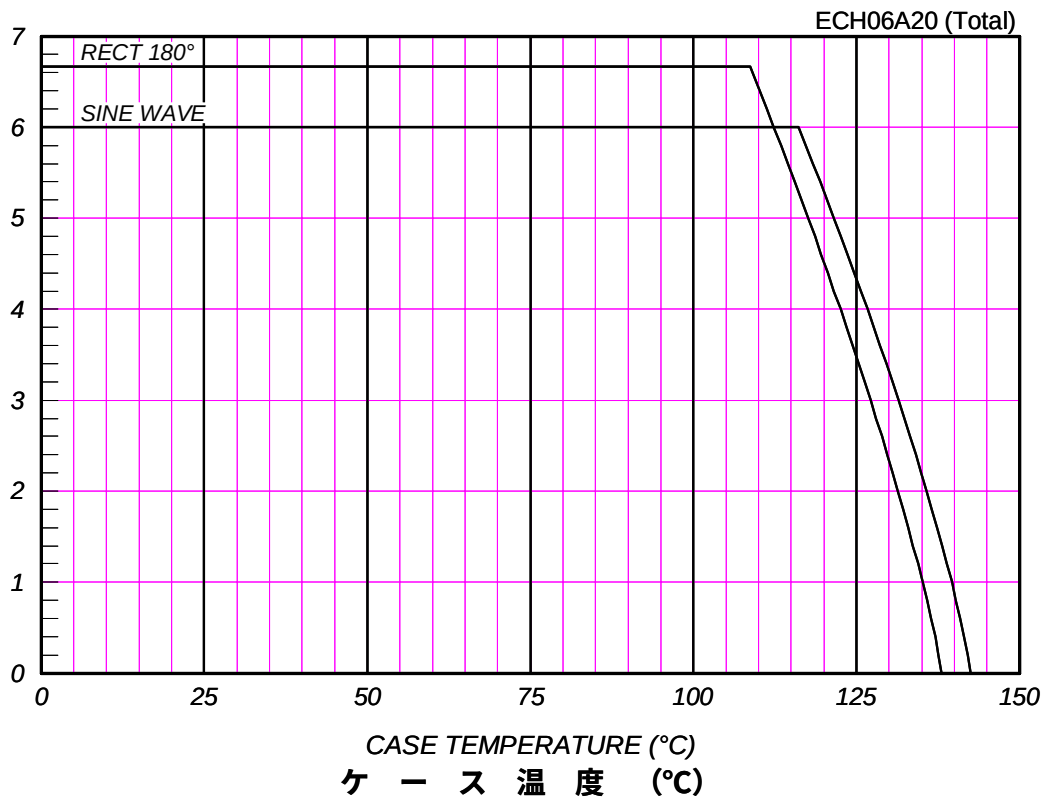


平均順電流－ケース温度定格 AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=200V$

平均順電流
 (A)

AVERAGE FORWARD CURRENT (A)

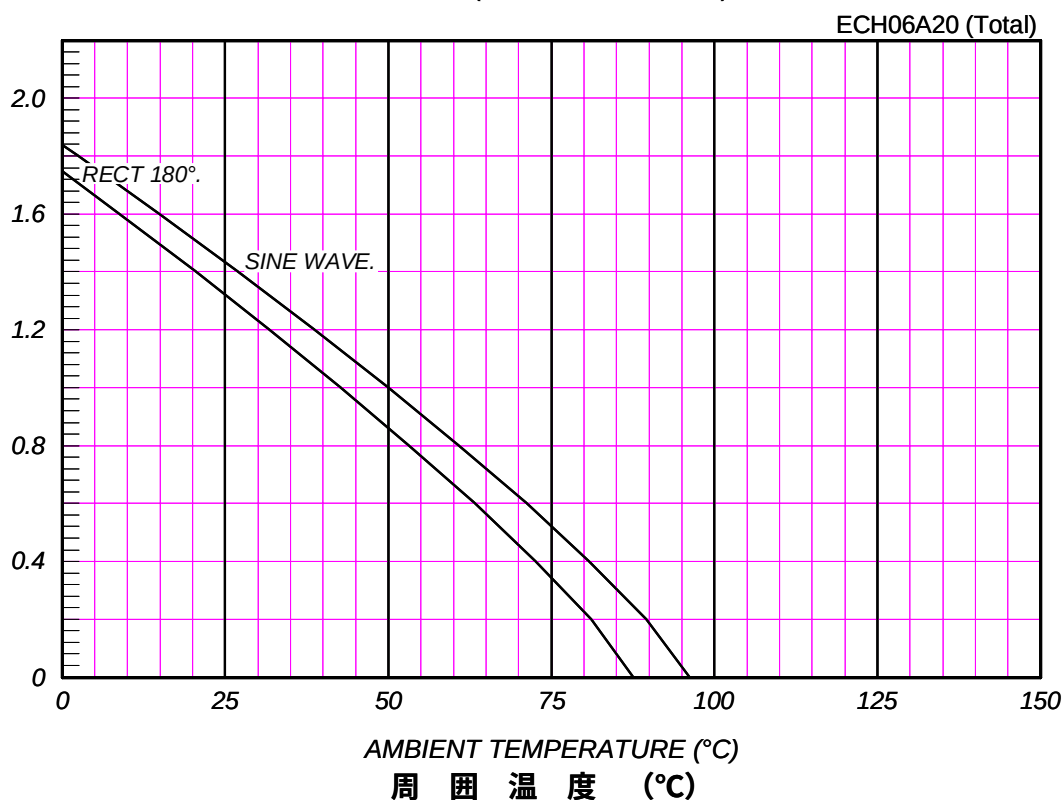


平均順電流－周囲温度定格 AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted(Print land=20×20mm), $V_{RM}=200V$

平均順電流
 (A)

AVERAGE FORWARD CURRENT (A)



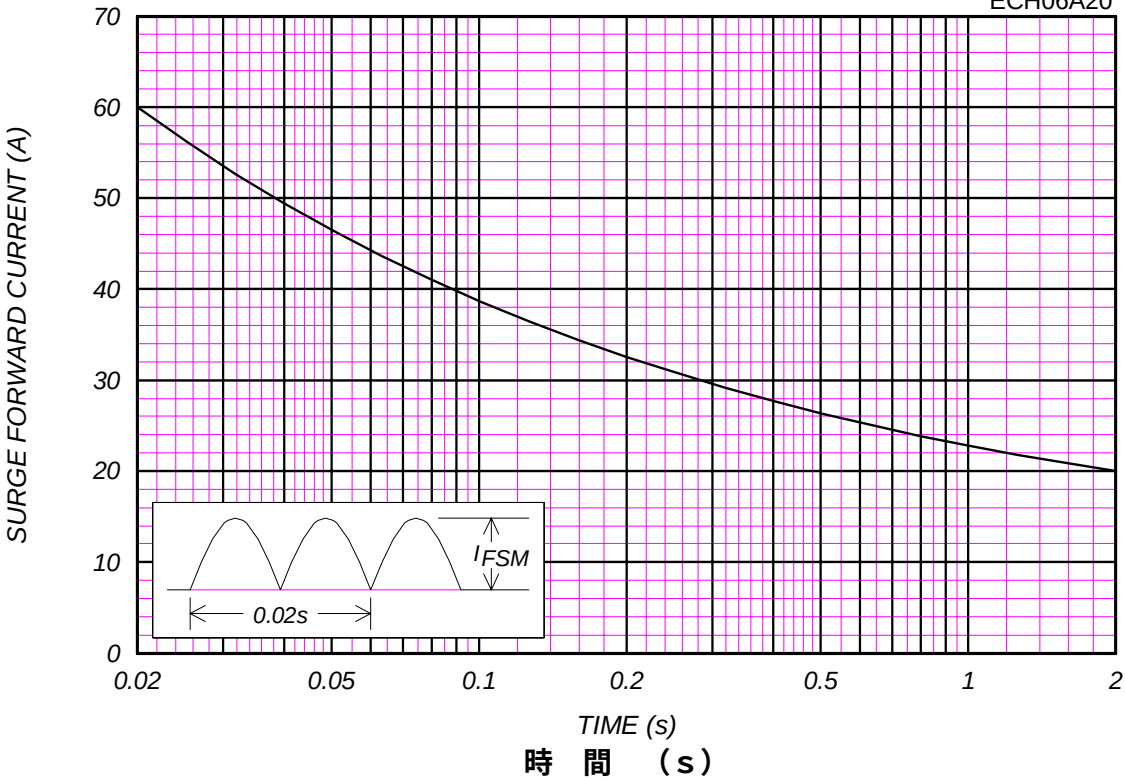
サージ順電流定格
SURGE CURRENT RATINGS

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

ECH06A20

サ
ー
ジ
順
電
流

(A)



接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25°C,Vm=20mVRMS,f=100kHz,Typical Value

ECH06A20 (per Arm)

接
合
容
量

(pF)

