查询EC30HA03L供应商

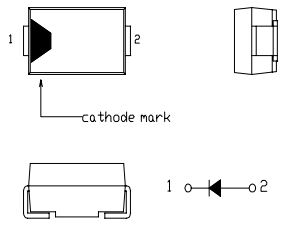
日本インター株式会社

SBD Type：EC30HA03L

■OUTLINE DRAWING

構造　　：表面実装型、ショットキバリアダイオード(ＳＢＤ)
Construction: Surface Mounting, Schottky Barrier Diode

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



■最大定格 / Maximum Ratings

Approx Net Weight:0.06g

Rating	Symbol	EC30HA03L			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	30			V
くり返しピークサージ逆電圧 Repetitive peak surge reverse voltage	V_{RRSM}	35	パルス幅1us以下、デューティー1/50以下 Pulse width ≦1us、Duty ≦ 1/50		V
平均整流電流 Average Rectified Output Current	I_0	1.89	Ta=25°C *1	50Hz、正弦半波通電 Half Sine Wave 抵抗負荷 Resistive Load	A
		3.0	Tl=102°C (Tl:Lead Temperature)		A
実効順電流 RMS Forward Current	$I_{F(RMS)}$	4.71			A
サージ順電流 Surge Forward Current	I_{FSM}	60	50 Hz 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 JunctionTemperature Range	Tjw	- 40 ～ + 150			°C
保存温度範囲 Storage Temperature Range	Tstg	- 40 ～ + 150			°C

■電気的・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}	-	-	500	μA
ピーク順電圧 Peak Forward Voltage		V_{FM}	Tj=25°C, I_{FM}= 3 A	-	-	0.54	V
熱抵抗 Thermal Resistance	接合部・周囲間 Junction to Ambient	Rth(j-a)	Alumina Substrate Mounted *1	-	-	108	°C/W
	接合部・リード間 Junction to Lead	Rth(j-l)	-	-	-	23	°C/W

*1:アルミナ基板実装/Alumina Substrate mounted (Soidering Lands= 2 × 2 mm , Both Sides)

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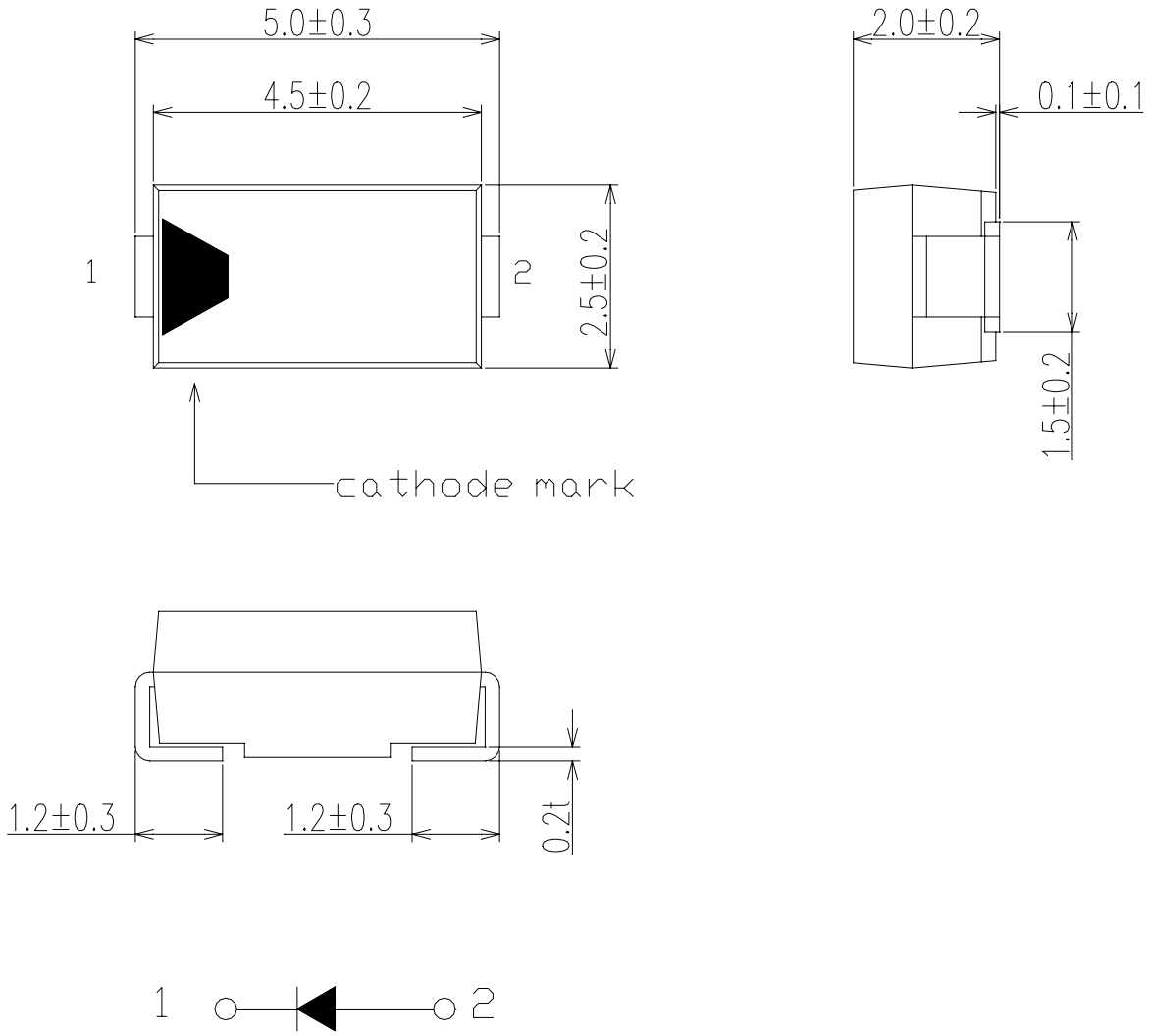
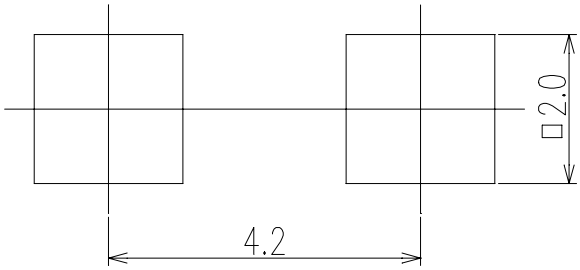
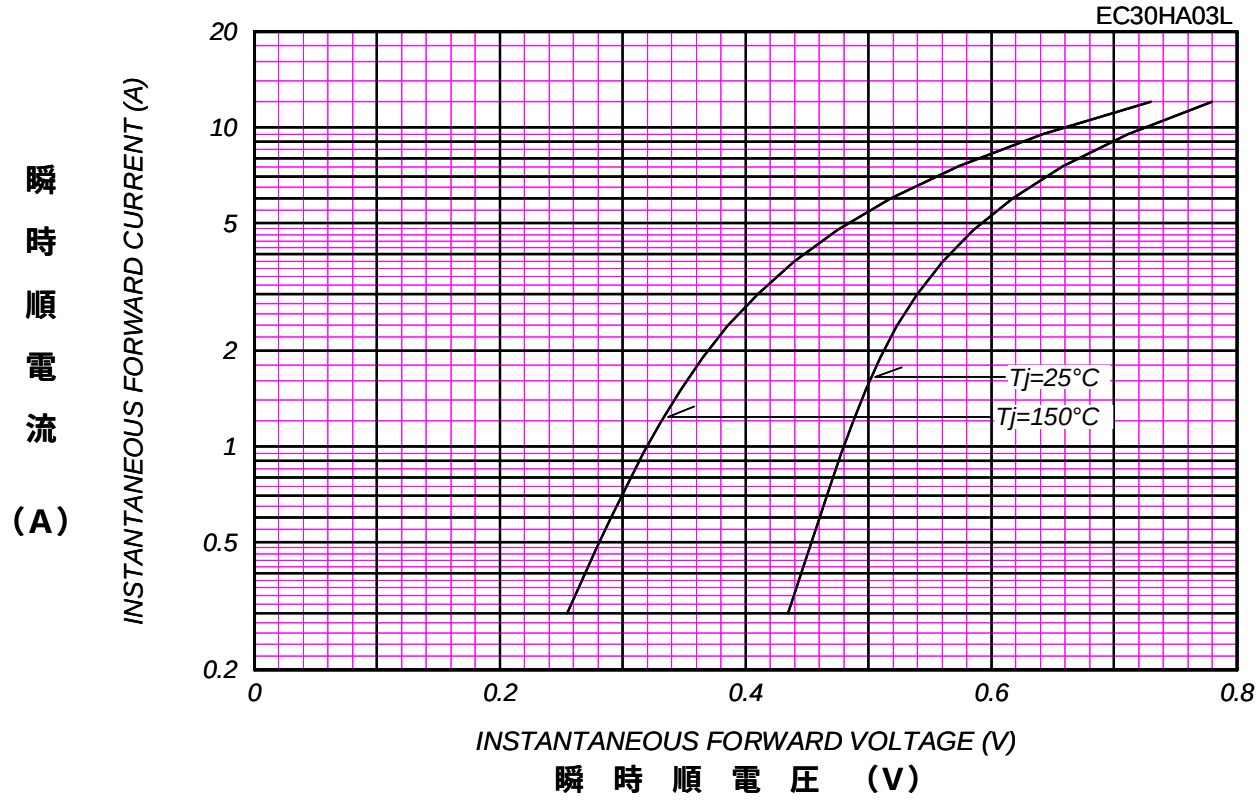
ＥＣ３０ＨＡ_　外形図　（単位：mm）

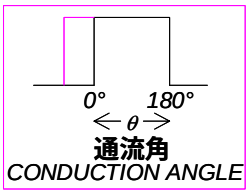


SOLDERING PAD

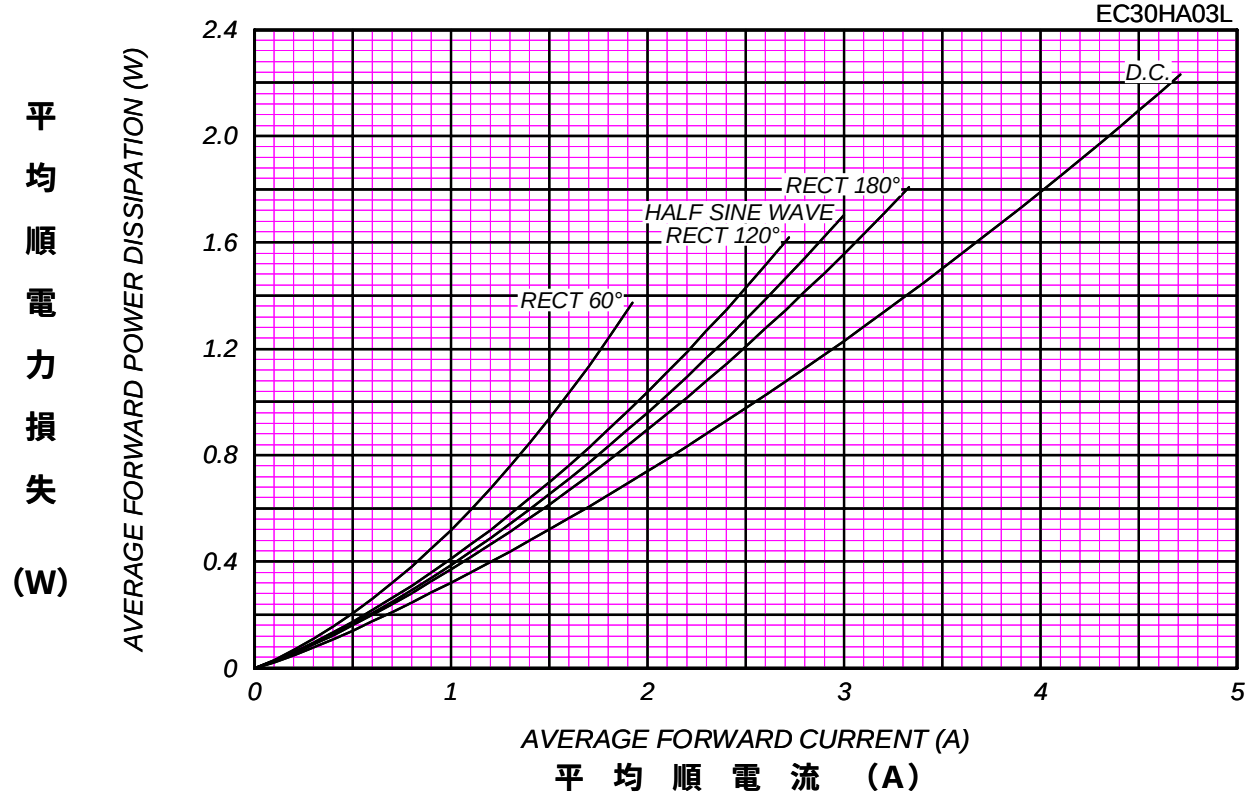


順 電 圧 特 性
FORWARD CURRENT VS. VOLTAGE



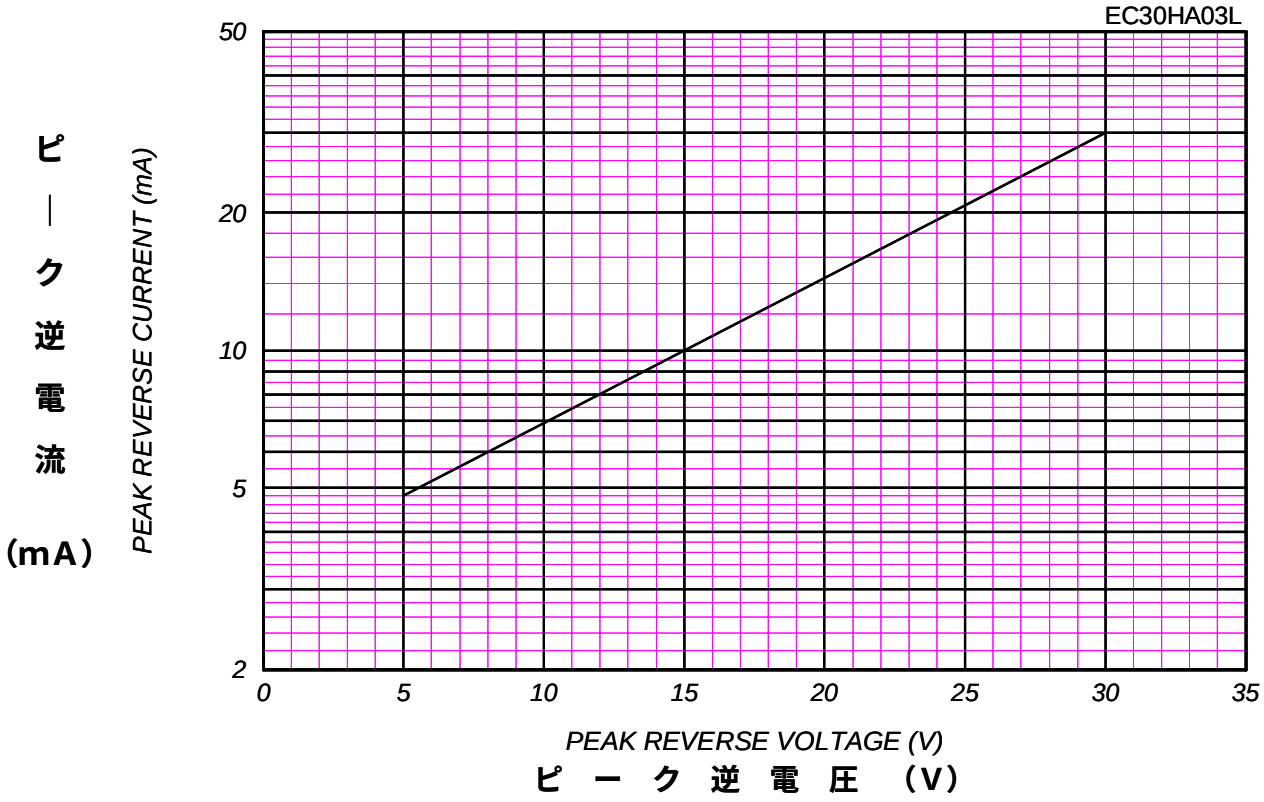


平 均 順 電 力 損 失 特 性
AVERAGE FORWARD POWER DISSIPATION

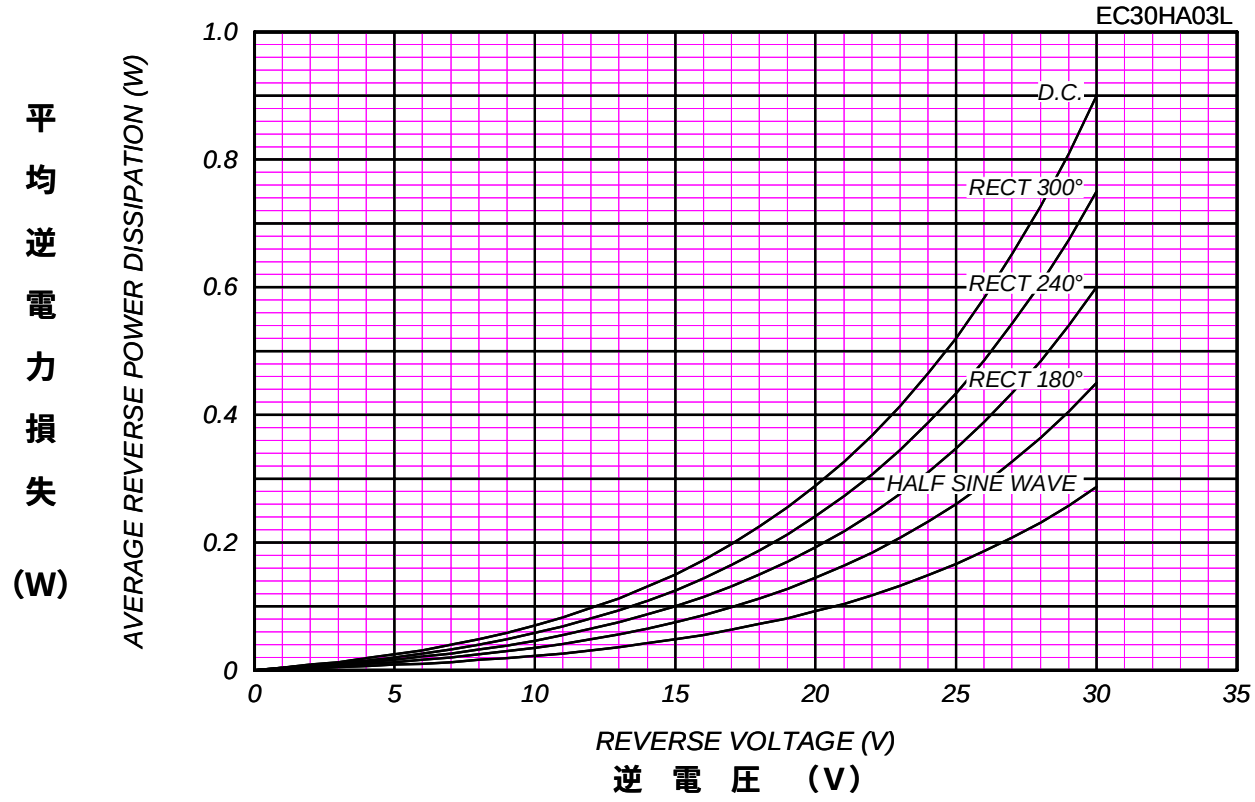


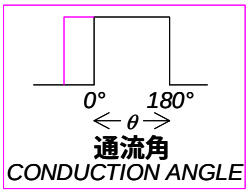
ピーク逆電流　－　ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150 °C



平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

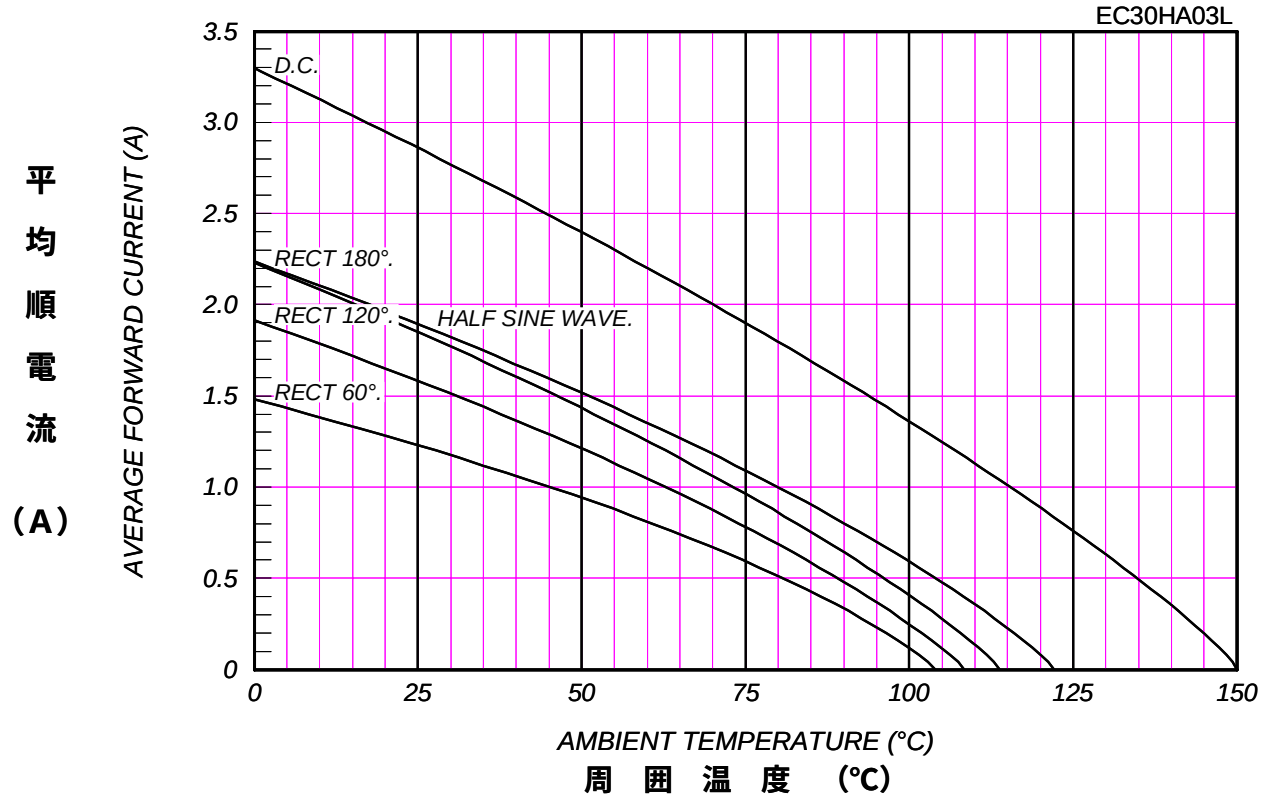


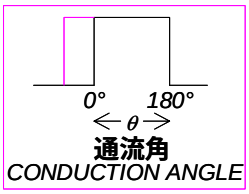


平 均 順 電 流 － 周 囲 温 度 定 格

AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Alumina Substrate Mounted(Soldering Land=2×2mm),V_{RM}=30V

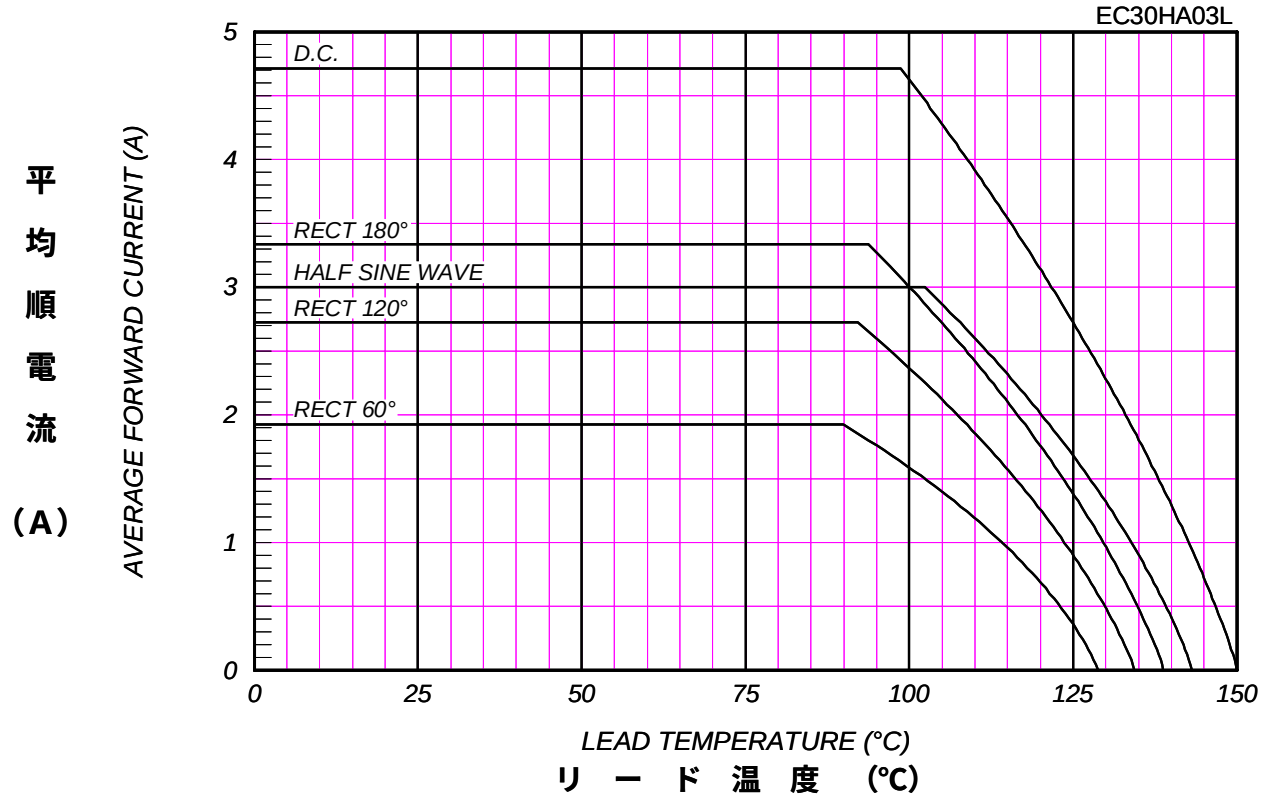




平 均 順 電 流 － リ ー ド 温 度 定 格

AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

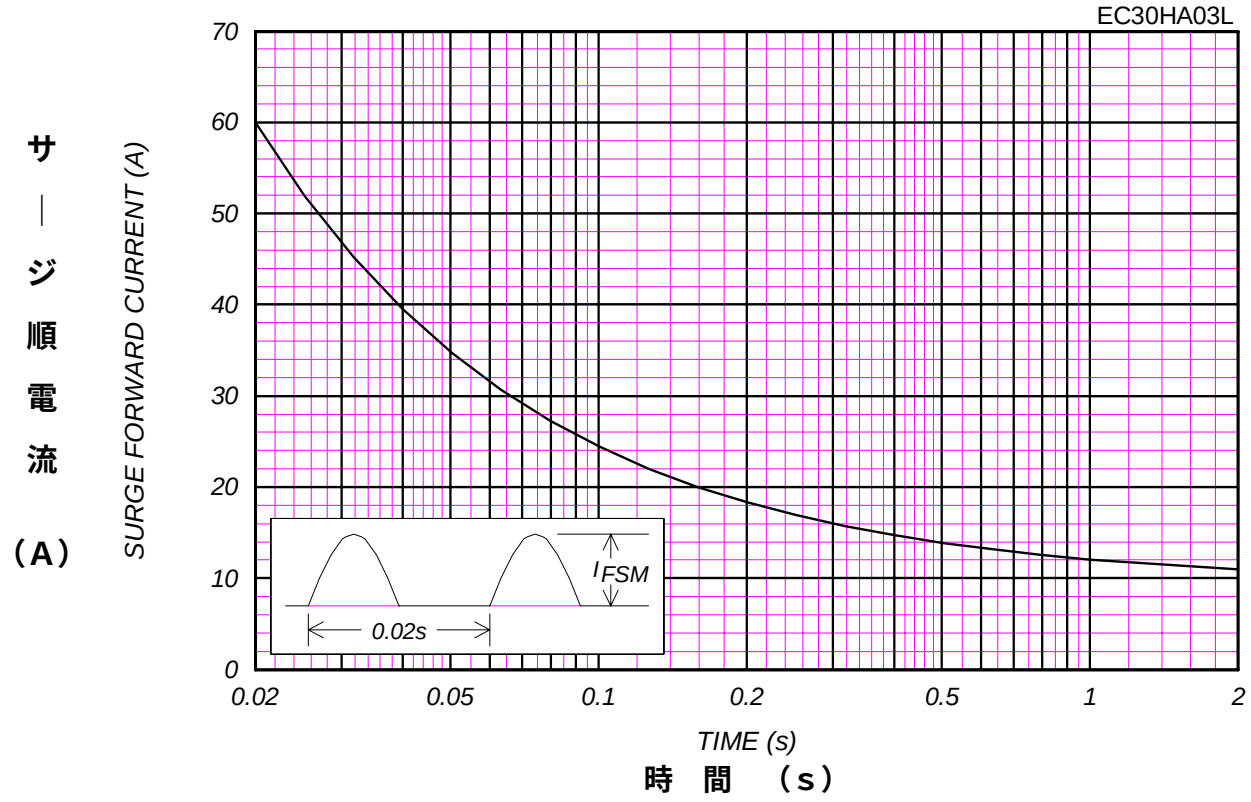
V_{RM}=30V



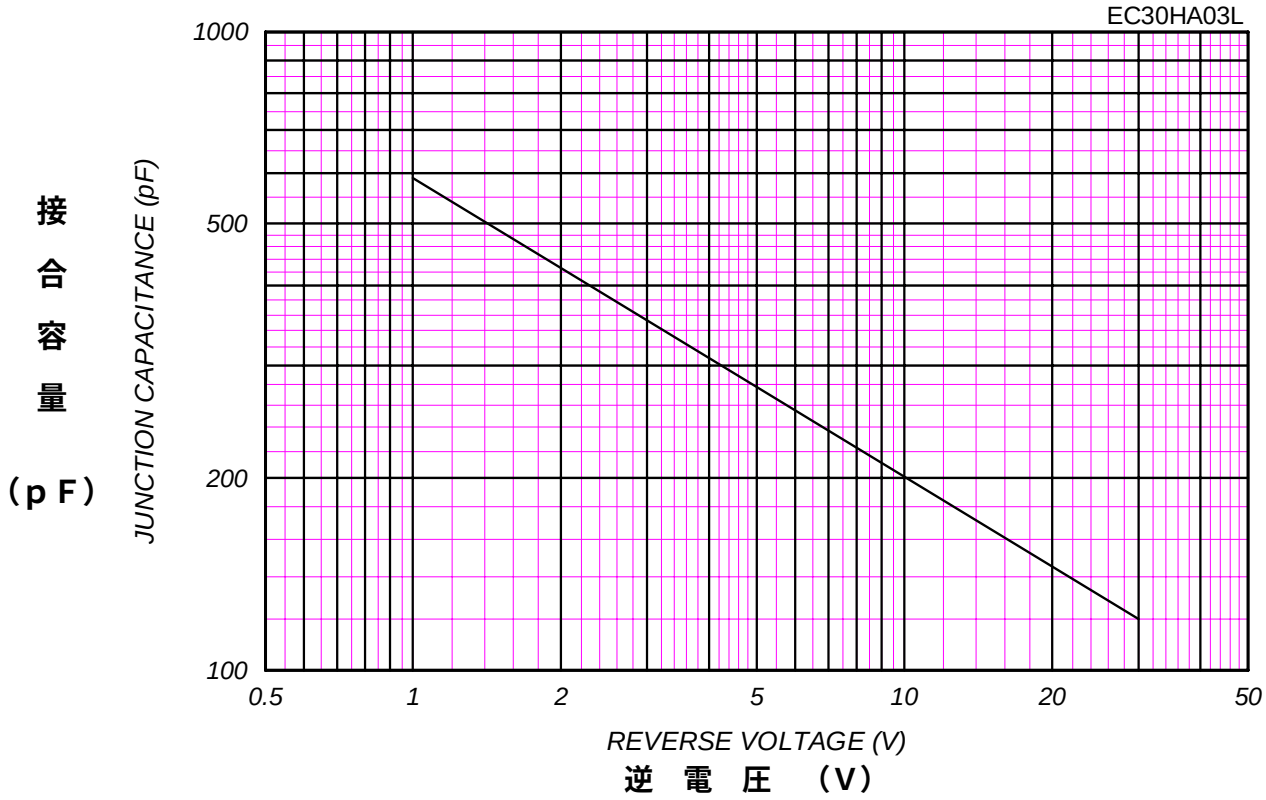
サ ー ジ 順 電 流 定 格

SURGE CURRENT RATINGS

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



接 合 容 量 特 性

JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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