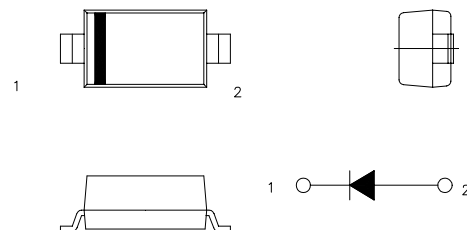


SBD Type : EP05Q06

OUTLINE DRAWING

構造 : 表面実装型、ショットキーバリアダイオード(S B D)
Construction: Surface Mounting Type, Schottky Barrier Diode

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



最大定格 / Maximum Ratings

Approx Net Weight:0.011g

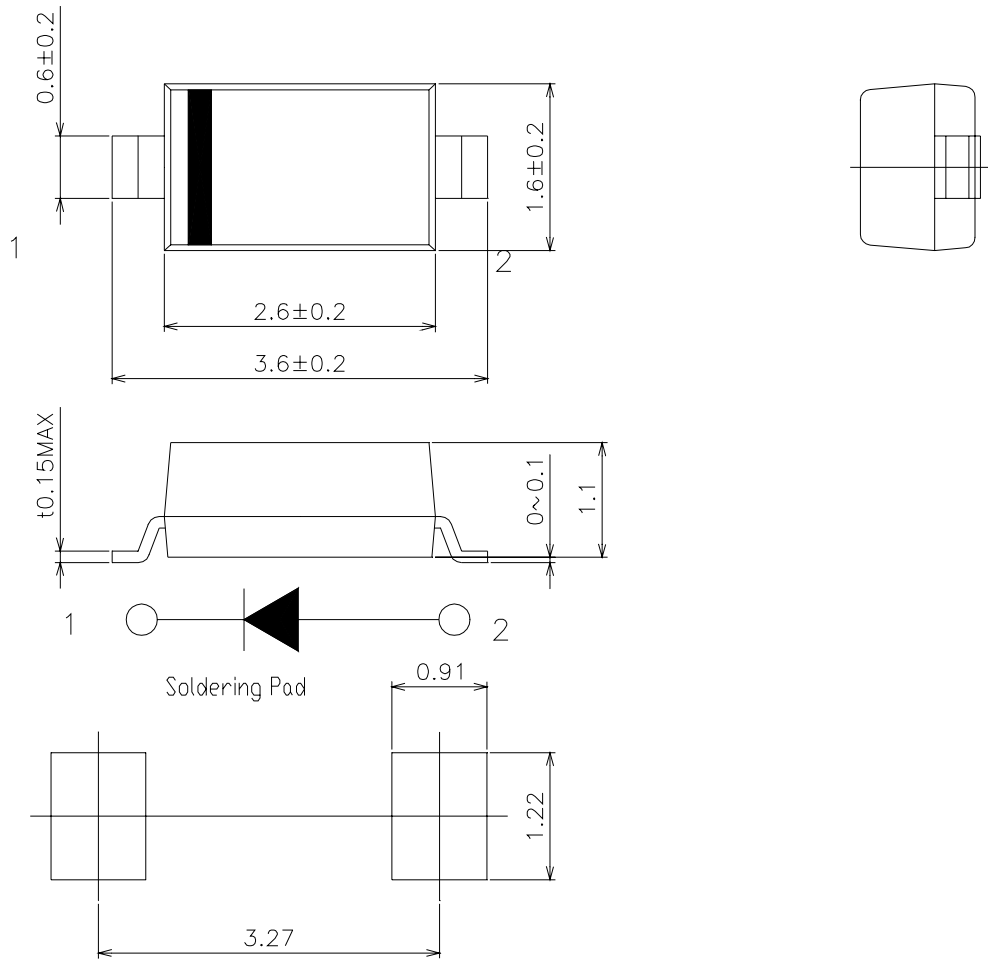
Rating	Symbol	EP05Q06			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	60			V
平均整流電流 Average Rectified Output Current	I ₀	0.40	Ta=25 *	50 Hz、正弦半波通電 Half Sine Wave	A
		0.5	TI=96	抵抗負荷 Resistive Load	A
実効順電流 RMS Forward Current	I _{F(RMS)}	0.785			A
サージ順電流 Surge Forward Current	I _{FSM}	8	50 Hz 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 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

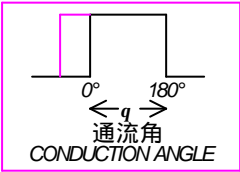
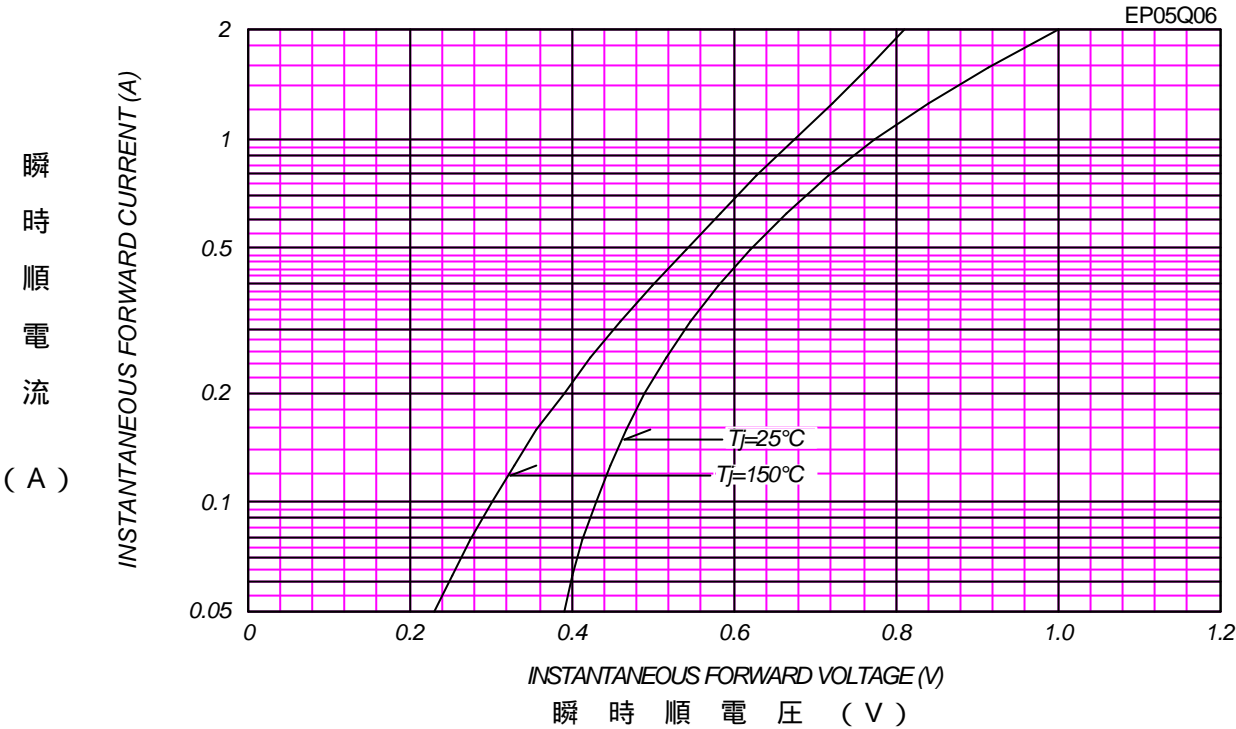
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	Tj=25 , $V_{RM}= V_{RRM}$	-	-	100	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	Tj=25 , $I_{FM}= 0.5 A$	-	-	0.62	V
熱抵抗 Thermal Resistance	Rth(j-a)	接合部・周囲間 * Junction to Ambient	-	-	300	/W
	Rth(j-l)	接合部・リード間 Junction to Lead	-	-	70	/W

*:プリント基板実装/Glass-Epoxy Substrate mounted (Soldering Lands= 1×1 mm , Both Sides)
(TI: Lead Temperature)

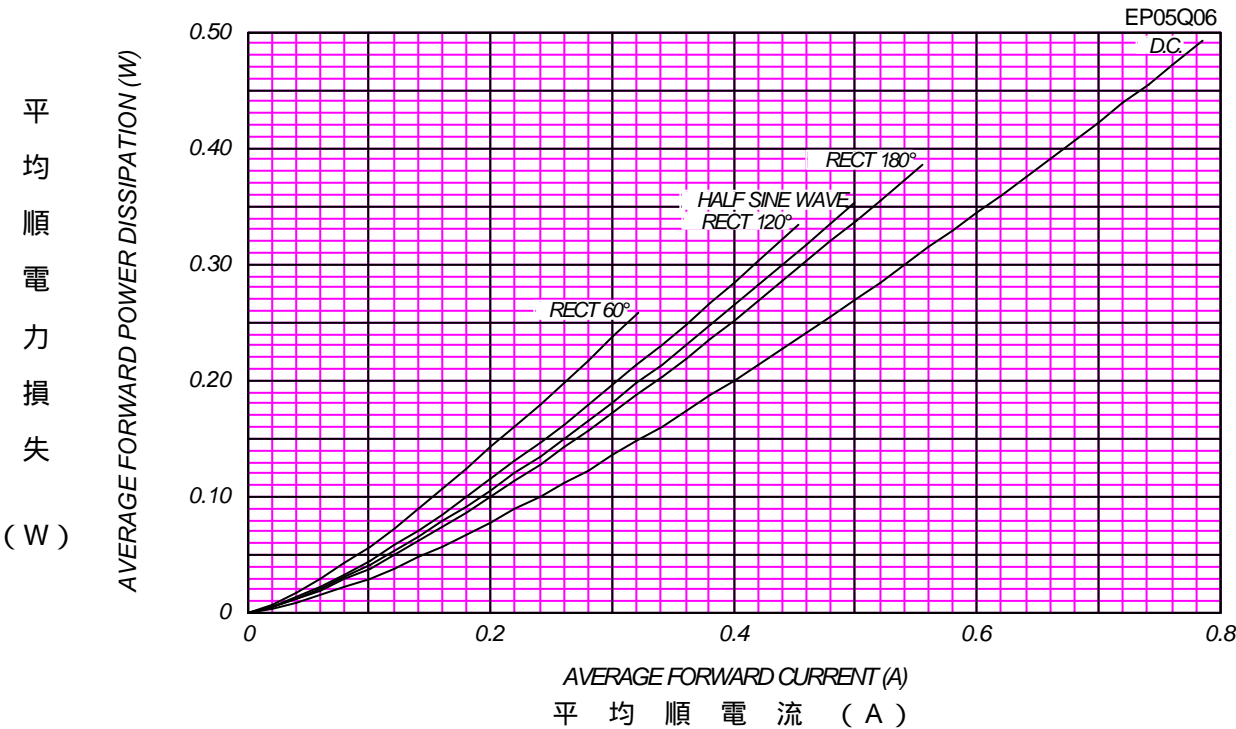
EP05Q06外形図 (mm)



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 °C

EP05Q06

ピーク逆電流
(mA)

PEAK REVERSE CURRENT (mA)



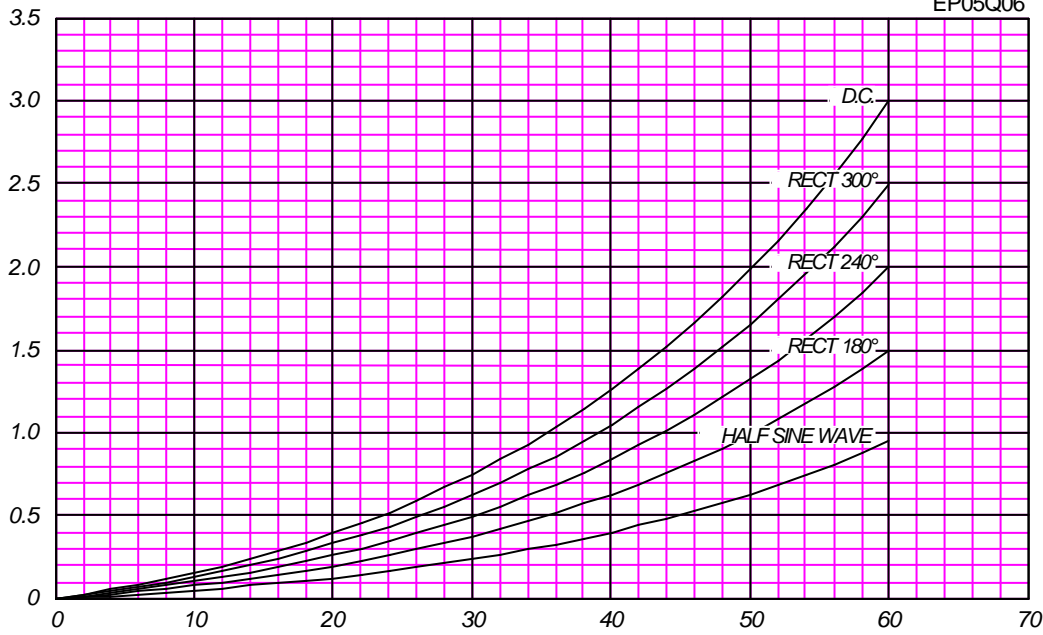
PEAK REVERSE VOLTAGE (V)
ピーク逆電圧 (V)

平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

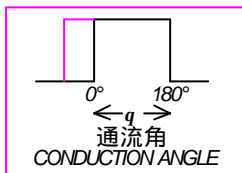
EP05Q06

平均逆電力損失
(W)

AVERAGE REVERSE POWER DISSIPATION (W)



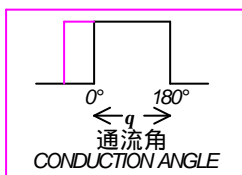
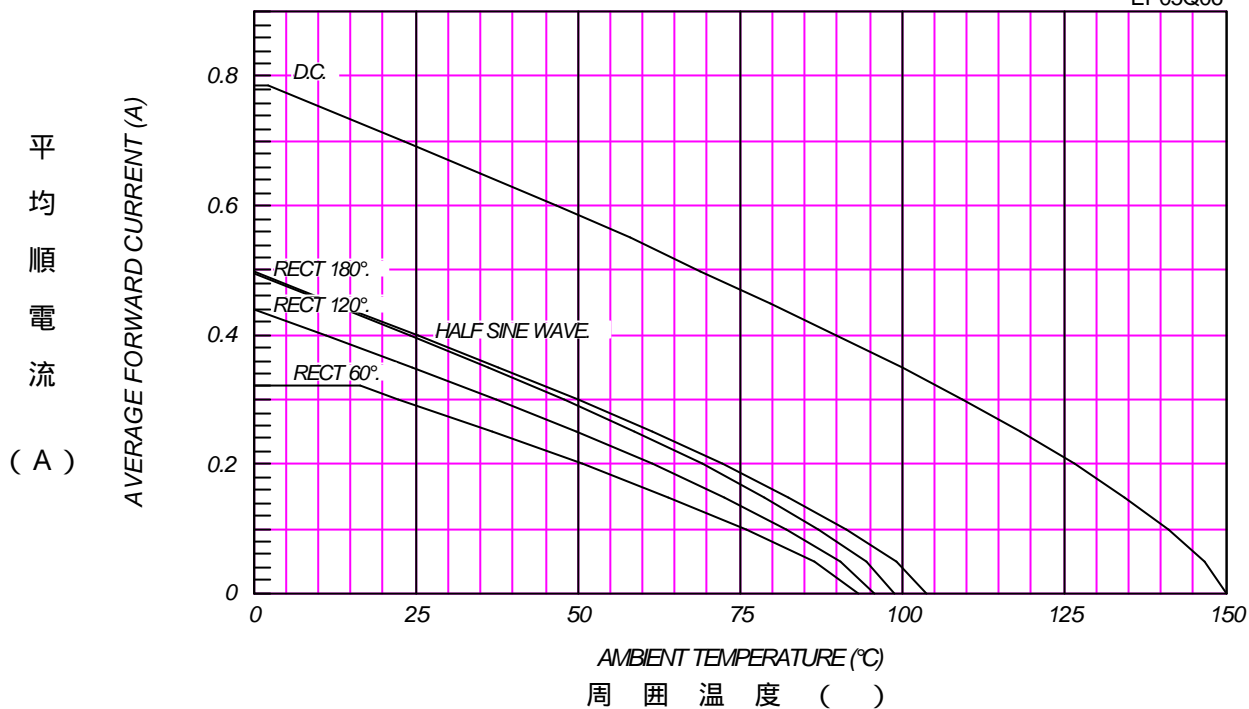
REVERSE VOLTAGE (V)
逆電圧 (V)



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

Glass-Epoxy Substrate Mounted (Soldering Land=1x1mm), $V_{RM}=60V$

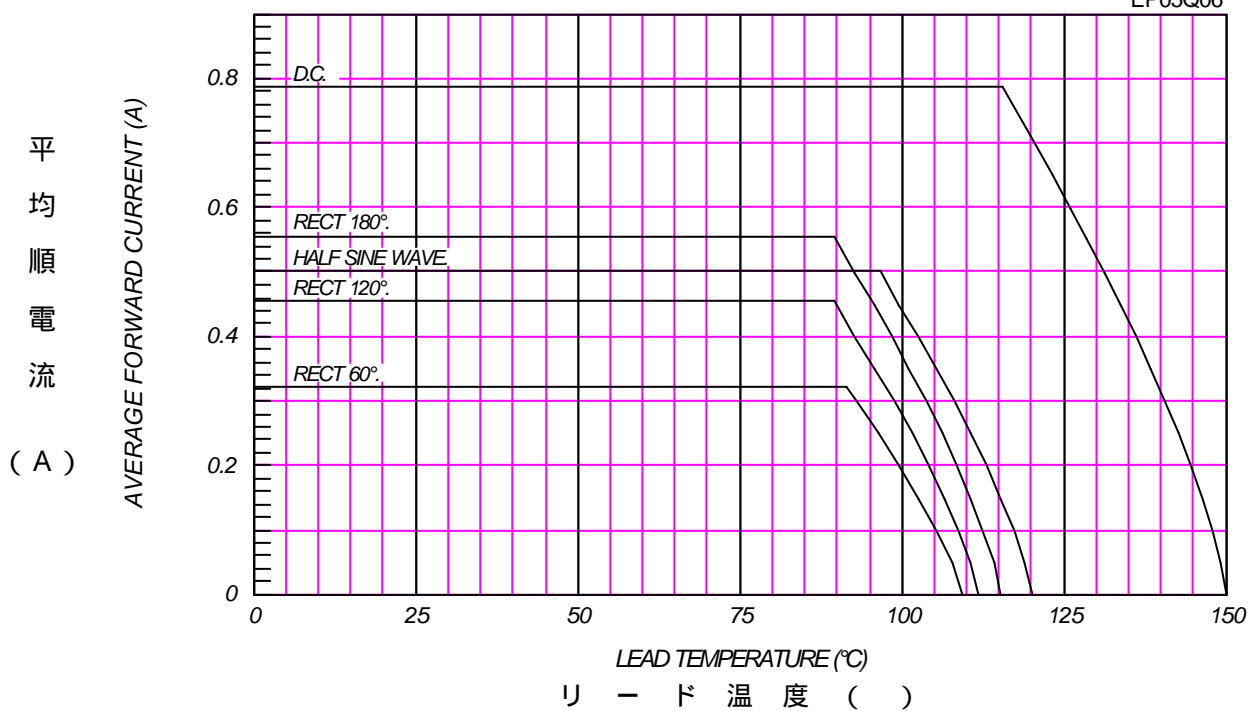
EP05Q06



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

$V_{RM}=60V$

EP05Q06



サージ順電流定格 SURGE CURRENT RATINGS

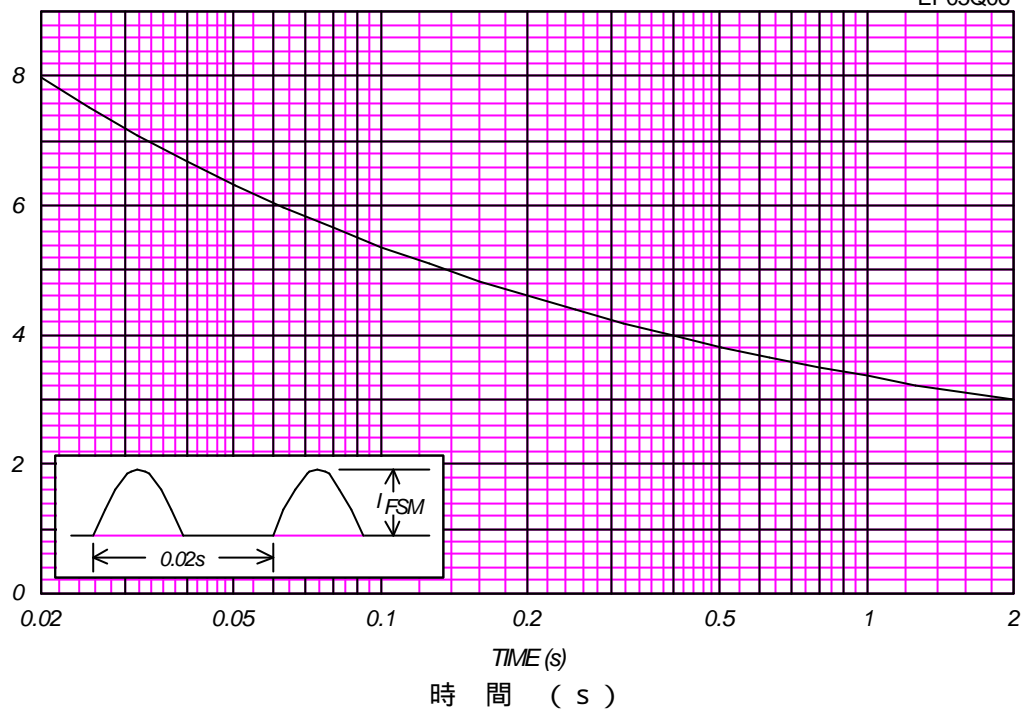
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

EP05Q06

サ
ー
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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

EP05Q06

接
合
容
量

(pF)

JUNCTION CAPACITANCE (pF)

