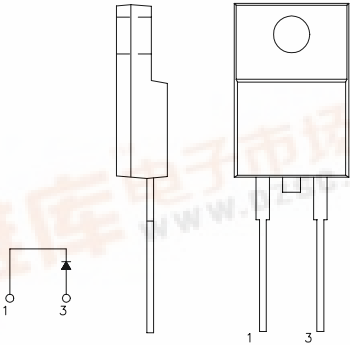




SBD Type : FSQ05A06

OUTLINE DRAWING

構造 : ショトキバリアダイオード (S B D)
Construction: Schottky Barrier Diode
用途 : 高周波整流用
Application : High Frequency Rectification



最大定格 / Maximum Ratings

Approx Net Weight:1.7g

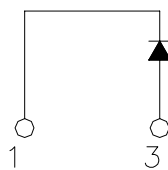
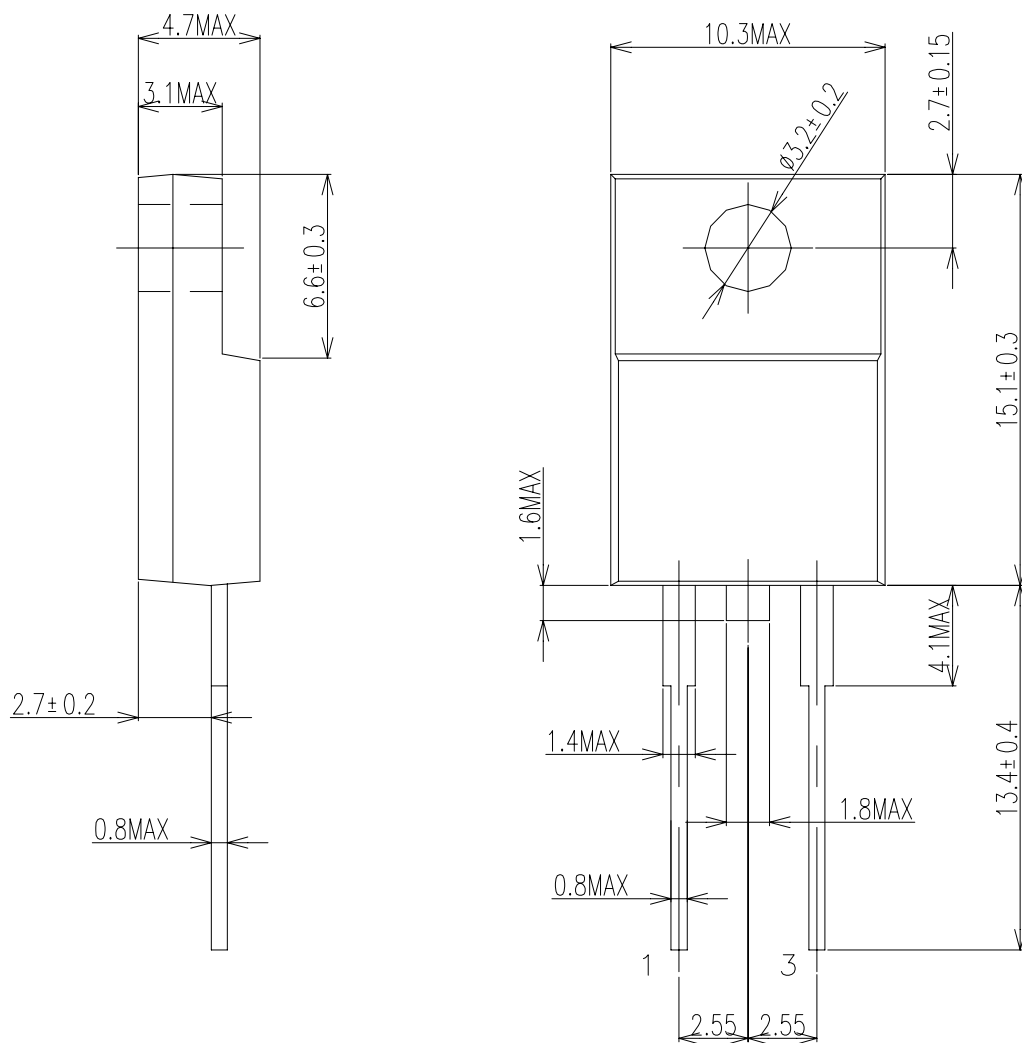
Rating	Symbol	FSQ05A06			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	60			V
平均整流電流 Average Rectified Output Current	I_0	5	$T_c=115^{\circ}C$	50 Hz、正弦半波通電抵抗負荷 Half Sine Wave, Resistive Load	A
実効順電流 RMS Forward Current	$I_{F(RMS)}$	7.85			A
サージ順電流 Surge Forward Current	I_{FSM}	110	50 Hz 正弦半波, 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			$^{\circ}C$
保存温度範囲 Storage Temperature Range	T_{stg}	- 40 ~ + 150			$^{\circ}C$
締付けトルク Mounting torque	F_{tor}	(推奨値recommended torque=0.5)			N・m

電氣的・熱的特性 / Electrical・Thermal Characteristics

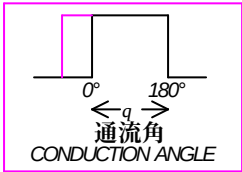
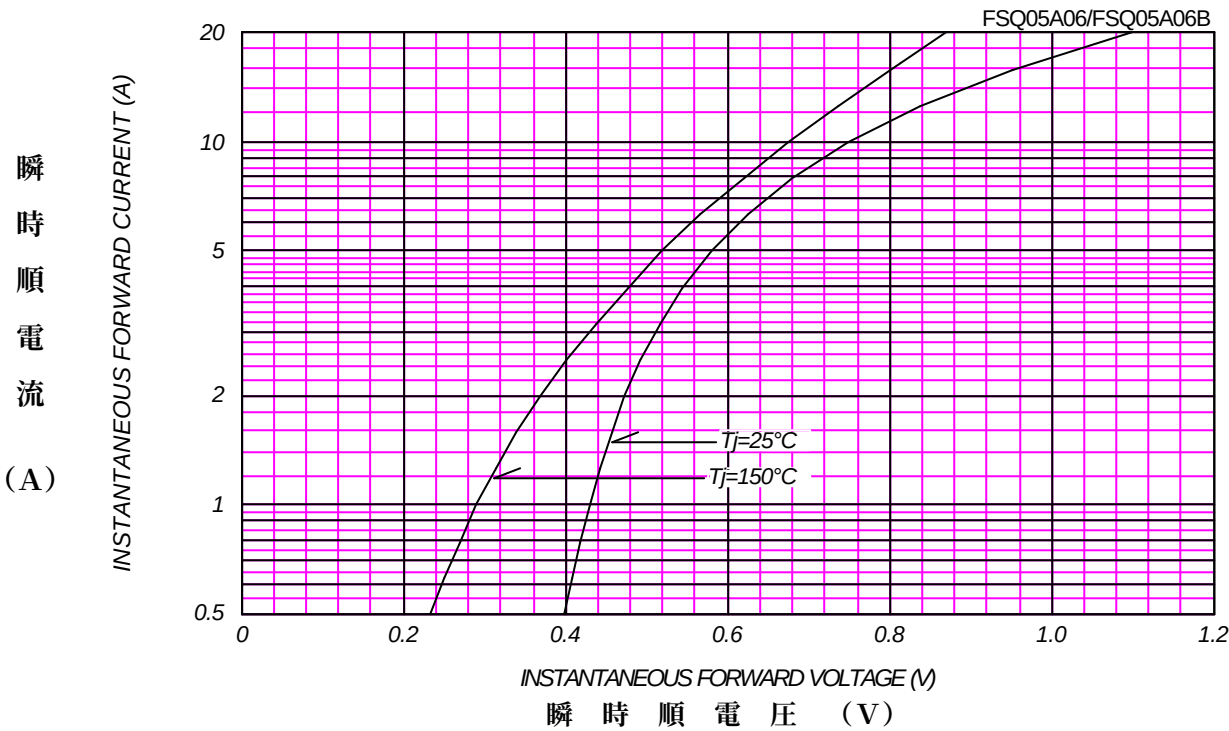
Characteristics		Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current		I_{RM}	$T_j = 25^{\circ}C, V_{RM} = V_{RRM}$	-	-	5	mA
ピーク順電圧 Peak Forward Voltage		V_{FM}	$T_j = 25^{\circ}C, I_{FM} = 5 A$	-	-	0.58	V
熱抵抗 Thermal Resistance	接合部・ケース間 Junction to Case	$R_{th(j-c)}$	Junction to Case	-	-	5	$^{\circ}C/W$
	ケース・フィン間 Case to Fin	$R_{th(c-f)}$	Case to Fin	-	-	1.5	$^{\circ}C/W$



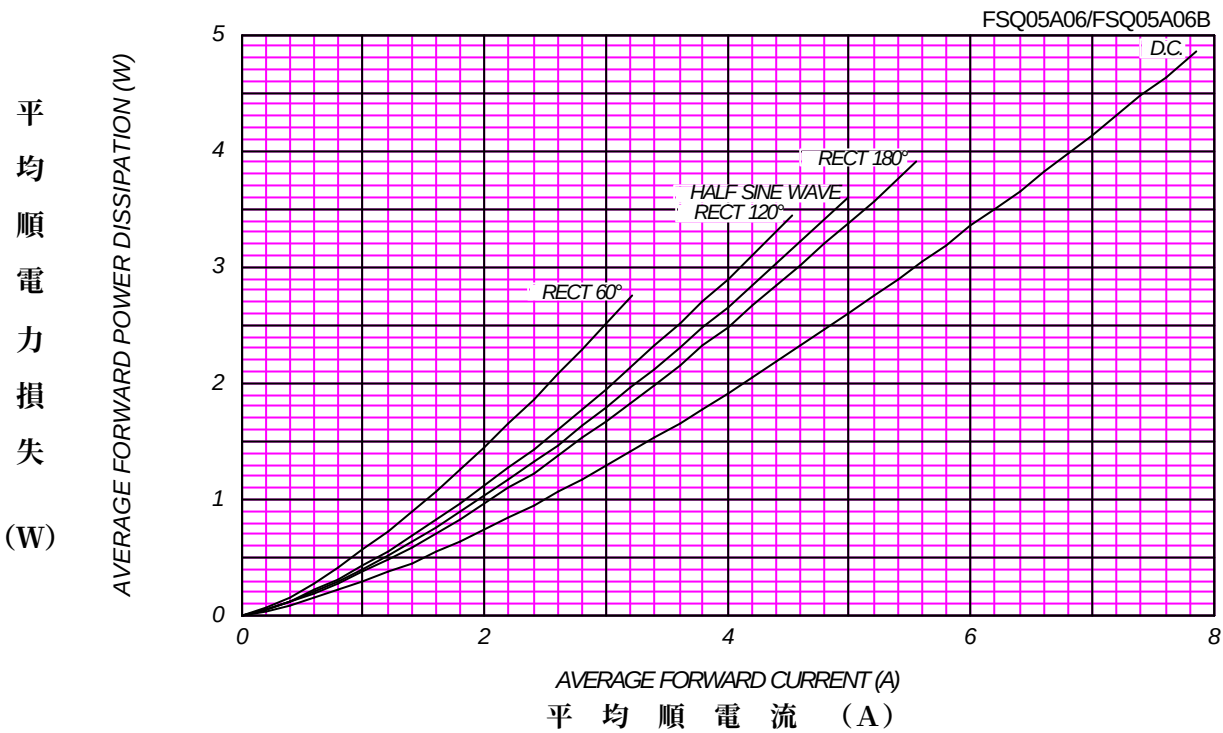
F S Q_A_外形図 (mm)



順電壓特性
FORWARD CURRENT VS. VOLTAGE



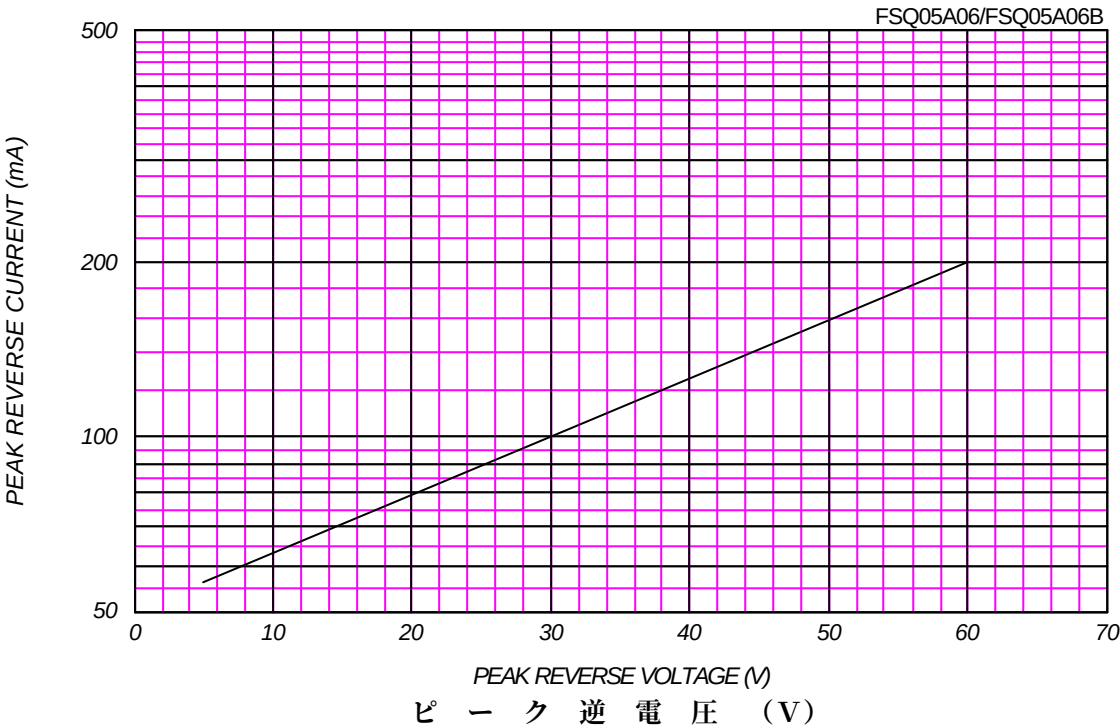
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

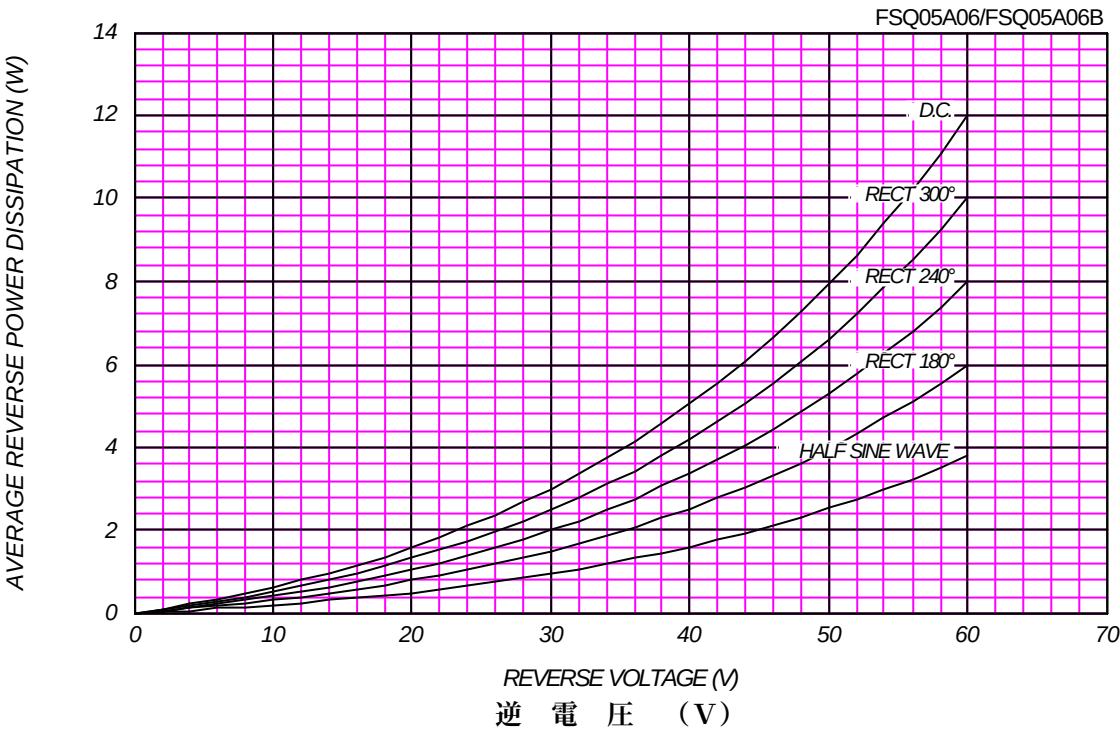
Tj= 150 °C

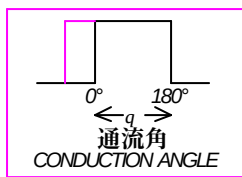
ピーク逆電流
(mA)



平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

平均逆電力損失
(W)





平均順電流－ケース温度定格

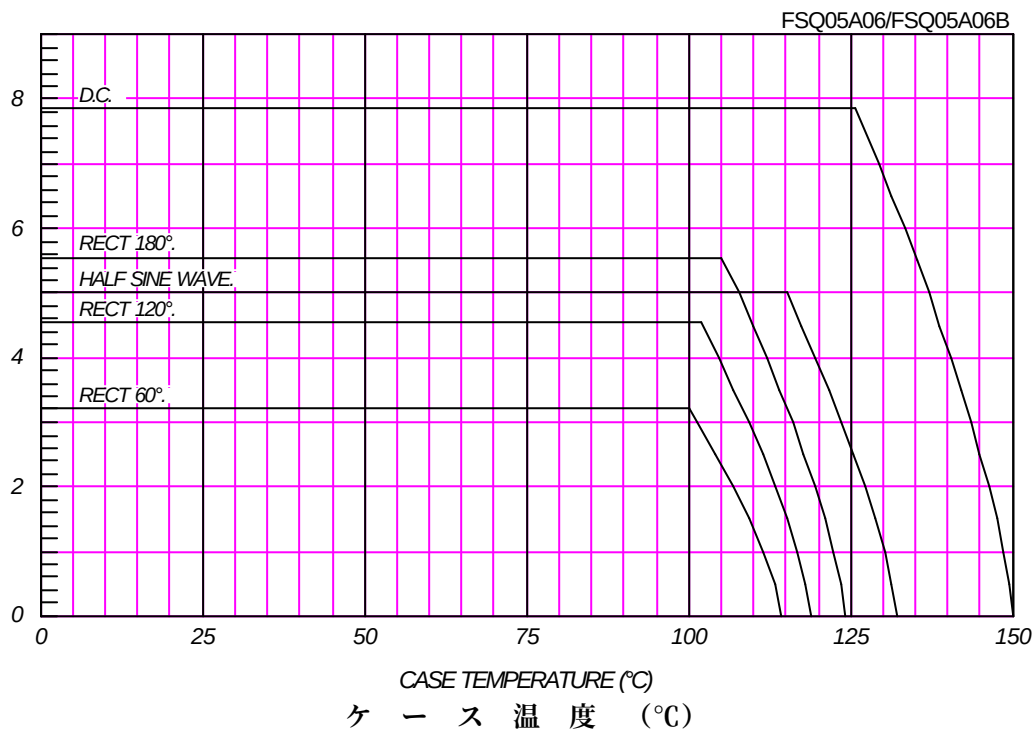
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$

平均順電流

(A)

AVERAGE FORWARD CURRENT (A)



サージ順電流定格

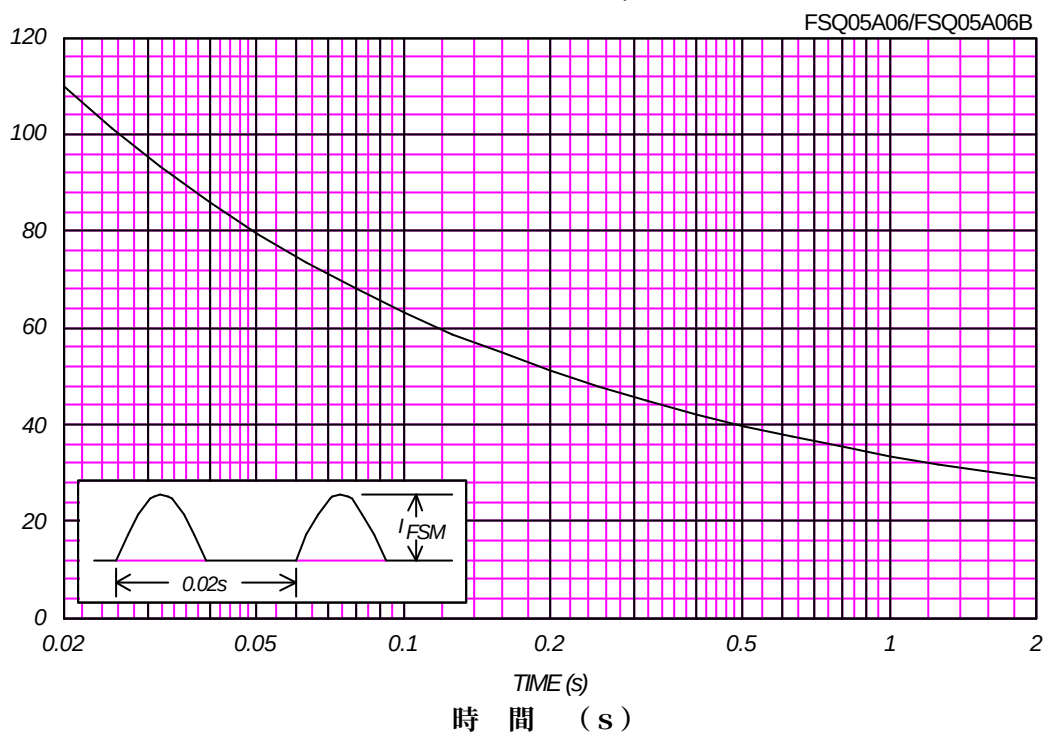
SURGE CURRENT RATINGS

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

サージ順電流

(A)

SURGE FORWARD CURRENT (A)



接 合 容 量 特 性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^{\circ}\text{C}$, $V_m=20\text{mV}_{\text{RMS}}$, $f=100\text{kHz}$, Typical Value

FSQ05A06/FSQ05A06B

接
合
容
量
(pF)

JUNCTION CAPACITANCE (pF)

