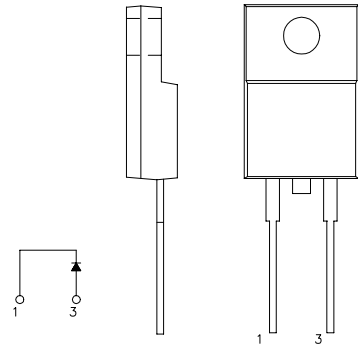


# SBD Type : FSQ05A06

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

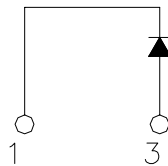
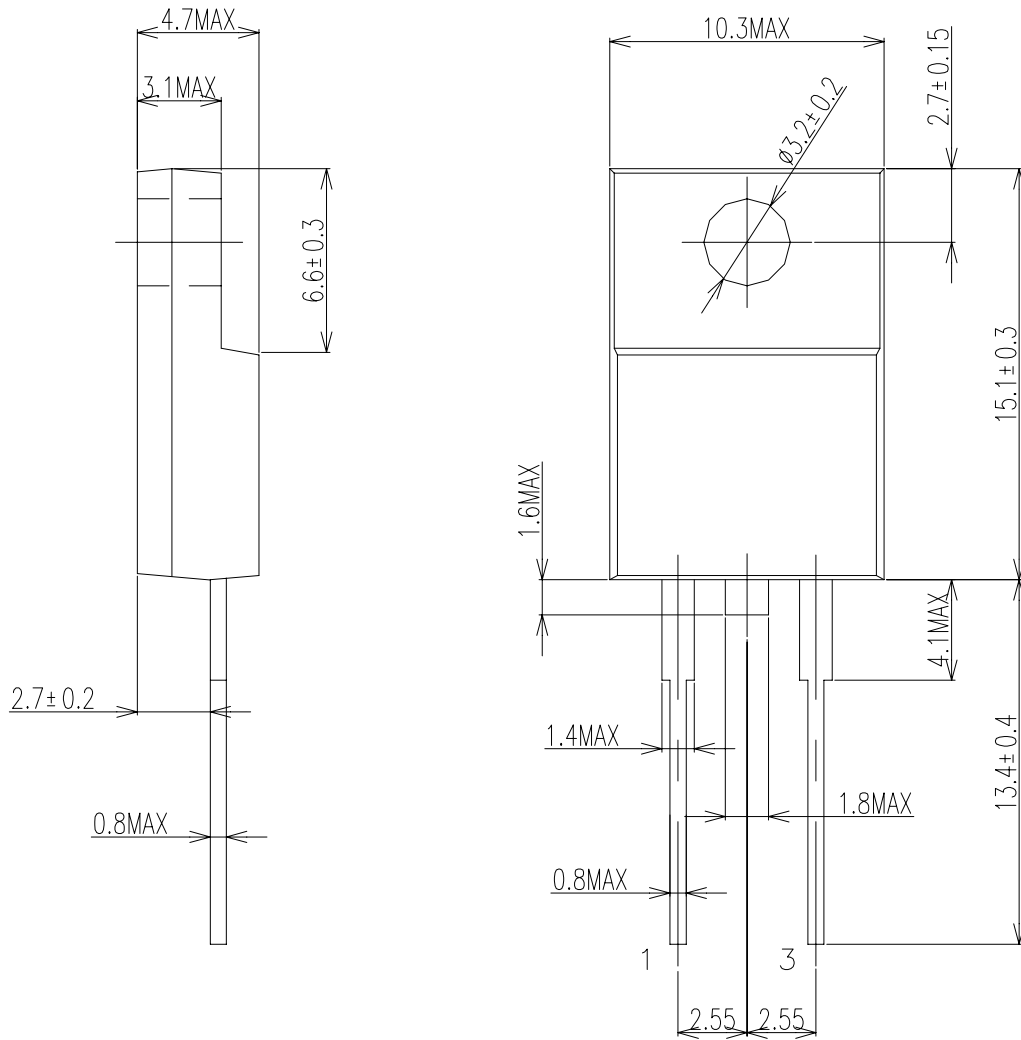
Approx Net Weight:1.7g

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	$I_O$	5	Tc=115 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	Tjw	- 40 ~ + 150		
保存温度範囲 Storage Temperature Range	Tstg	- 40 ~ + 150		
締付けトルク Mounting torque	Ftor	(推奨値 recommended torque=0.5)		N•m

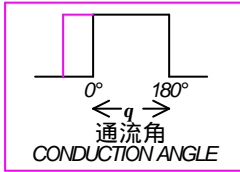
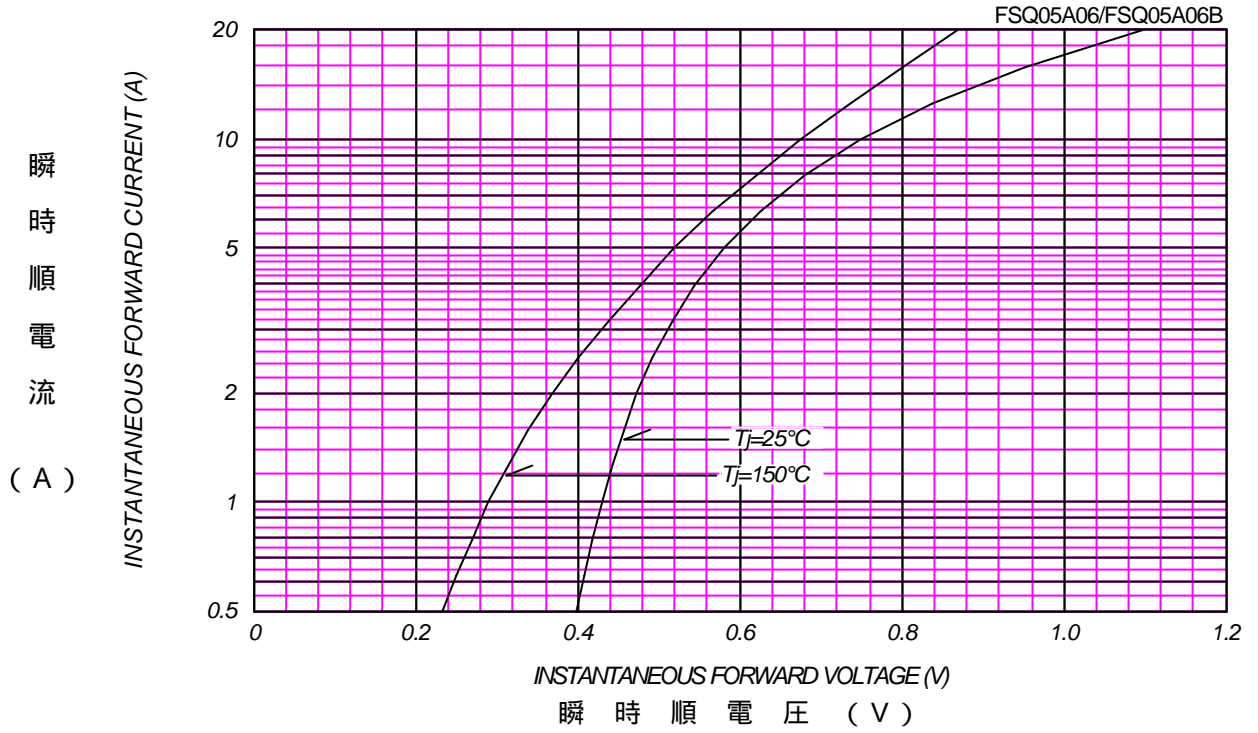
## 電氣的・熱的特性 / Electrical・Thermal Characteristics

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

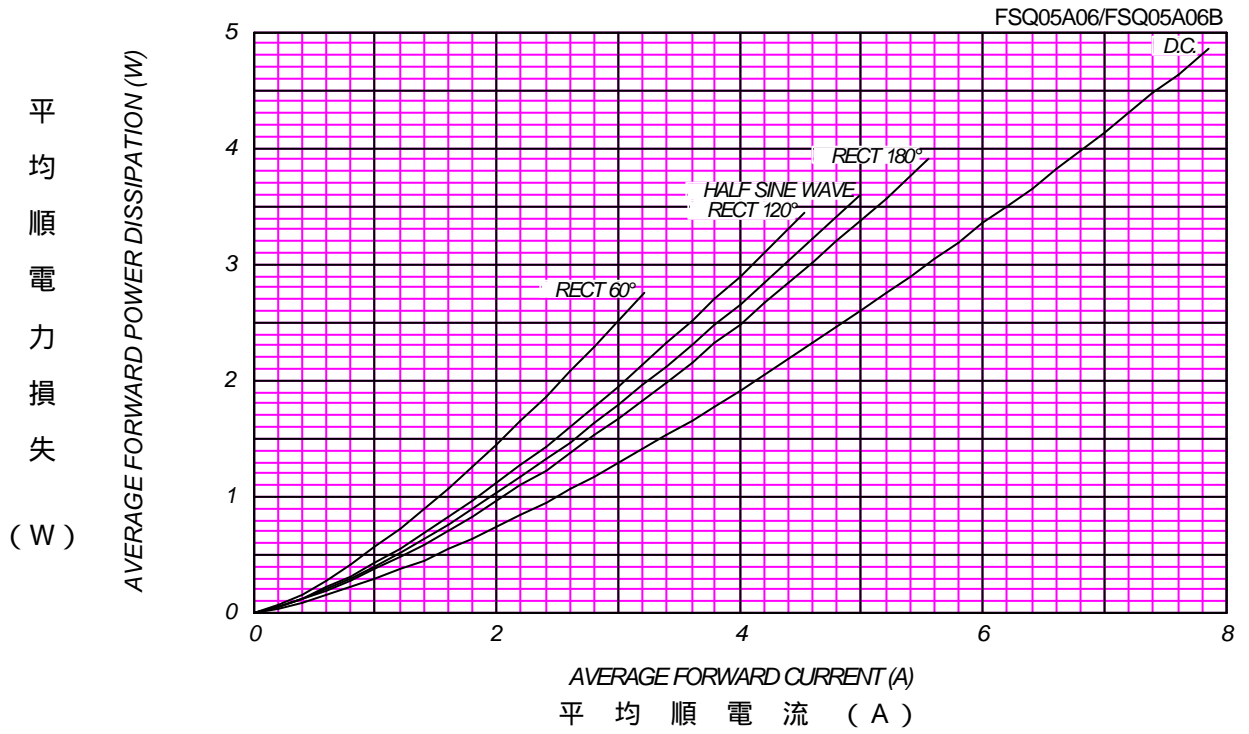
F S Q\_A\_外形図 (mm)



順電压特性  
FORWARD CURRENT VS. VOLTAGE



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



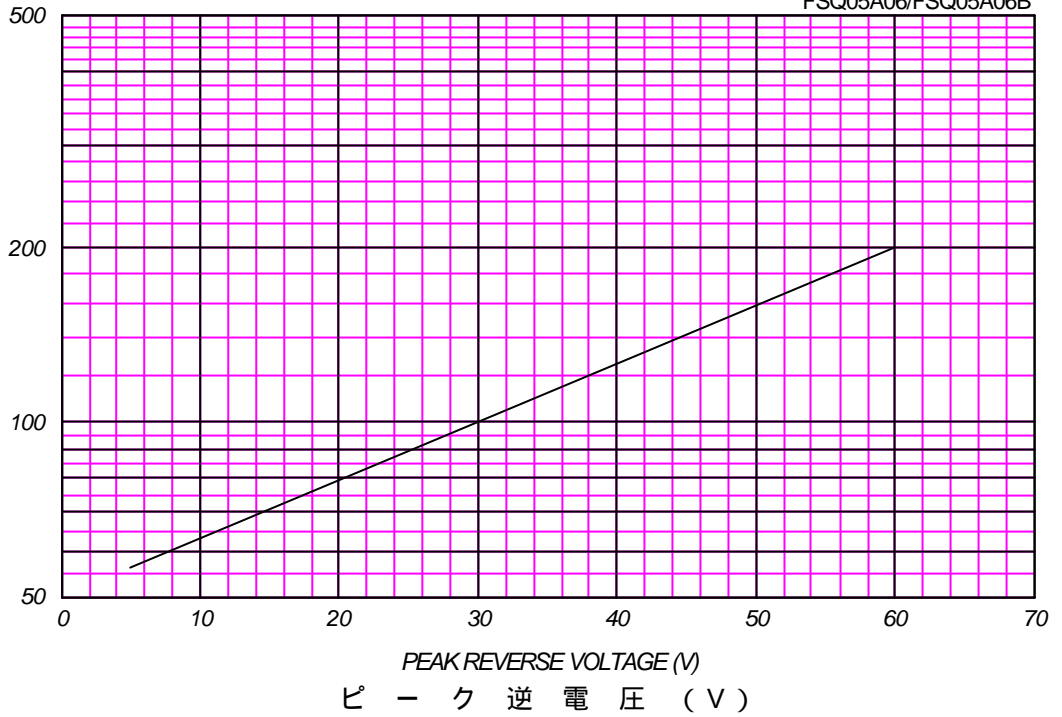
ピーク逆電流 - ピーク逆電圧特性  
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T<sub>j</sub> = 150 °C

F5Q05A06/F5Q05A06B

ピーク逆電流  
 (mA)

PEAK REVERSE CURRENT (mA)

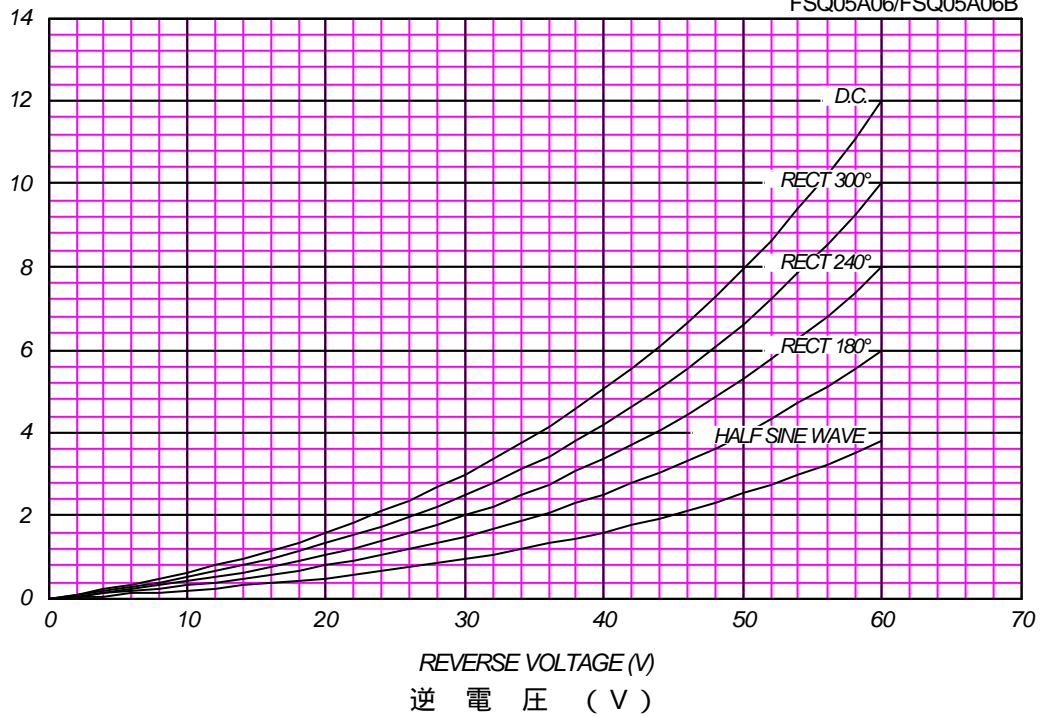


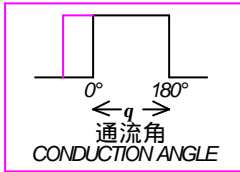
平均逆電力損失  
 AVERAGE REVERSE POWER DISSIPATION

F5Q05A06/F5Q05A06B

平均逆電力損失  
 (W)

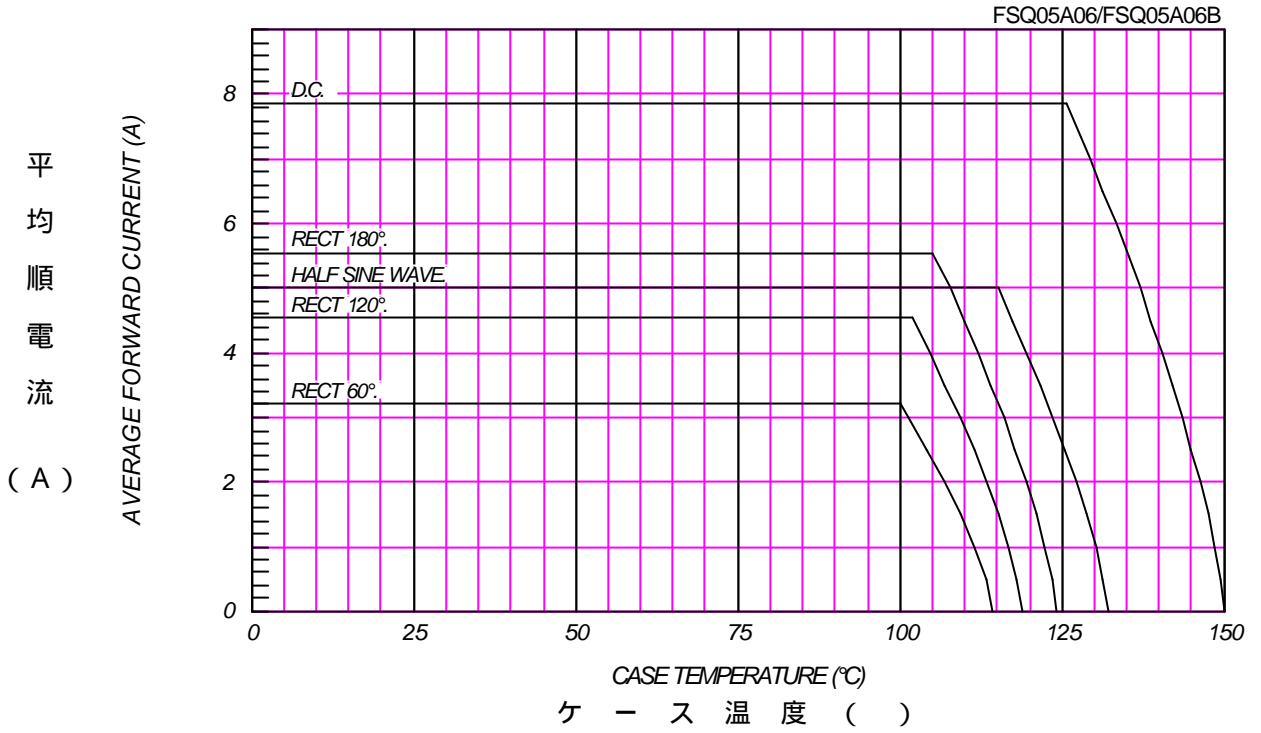
AVERAGE REVERSE POWER DISSIPATION (W)





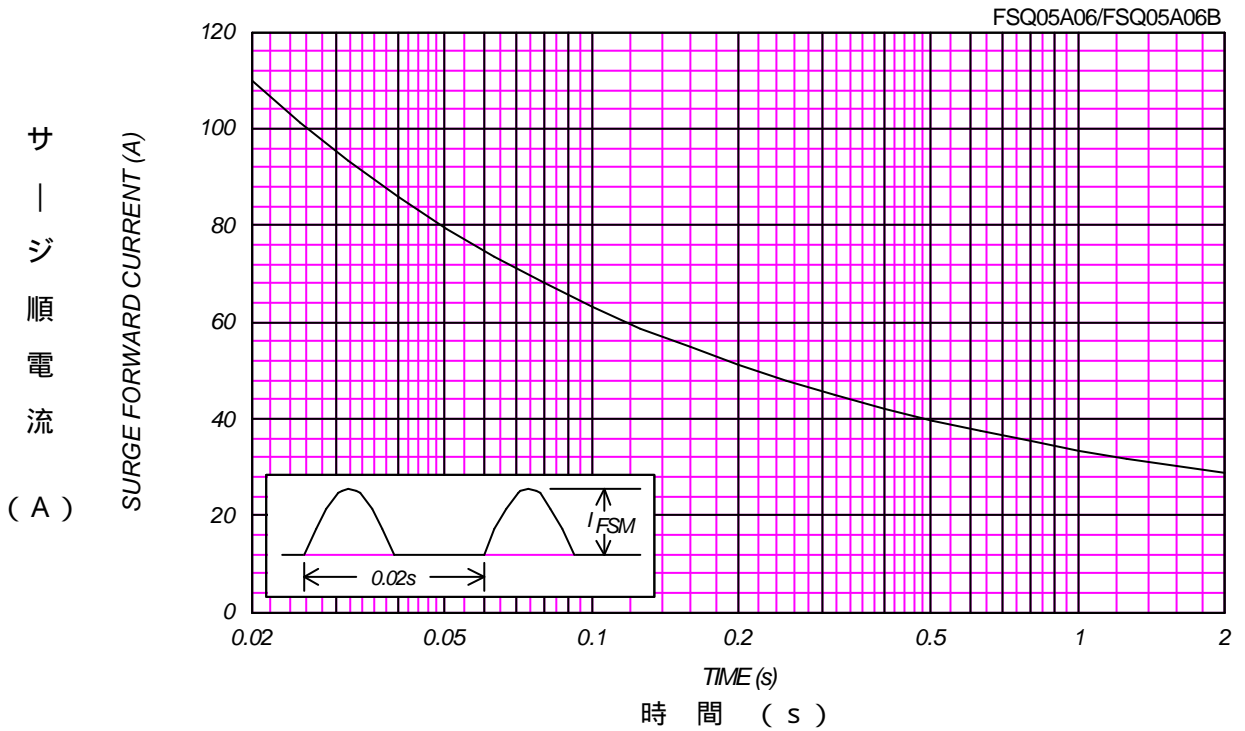
平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$



サージ順電流定格  
SURGE CURRENT RATINGS

$f=50\text{Hz}$ , Half Sine Wave, Non-Repetitive, No Load



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

