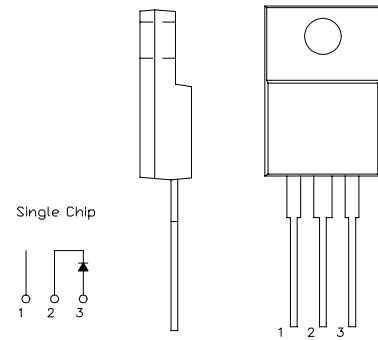


# SBD Type : FSQ10A06B

## 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

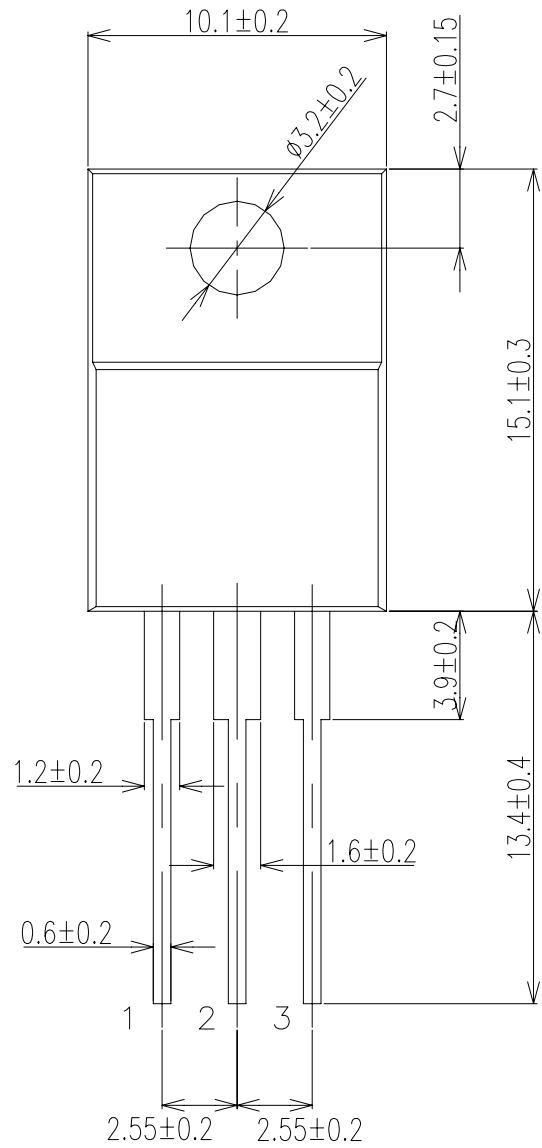
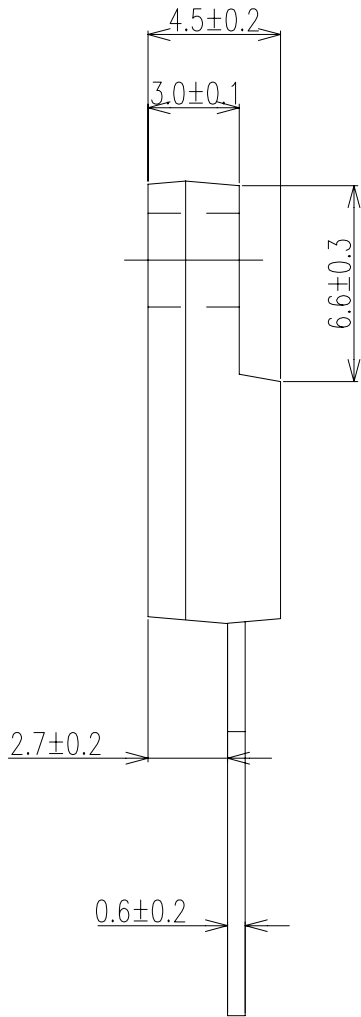
Approx Net Weight: 1.75g

Rating	Symbol	FSQ10A06B			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$	60			V
非くり返しピーク逆電圧 Non-repetitive Peak Reverse Voltage	$V_{RSM}$	65			V
平均整流電流 Average Rectified Output Current	$I_O$	10	$T_c=111$	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	$I_{F(RMS)}$	15.7			A
サージ順電流 Surge Forward Current	$I_{FSM}$	150	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			
締付けトルク Mounting torque	$F_{tor}$	(推奨値 recommended torque=0.5)			N·m

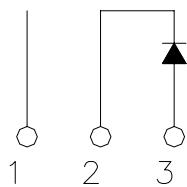
### 電氣的・熱的特性 / Electrical · Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	$I_{RM}$	$T_j = 25$ , $V_{RM} = V_{RRM}$	-	-	10	mA
ピーク順電圧 Peak Forward Voltage	$V_{FM}$	$T_j = 25$ , $I_{FM} = 10$ A	-	-	0.67	V
熱抵抗 Thermal Resistance	接合部・ケース間 Junction to Case	$R_{th(j-c)}$ Junction to Case	-	-	3	/W
	ケース・フィン間 Case to Fin	$R_{th(c-f)}$ Case to Fin	-	-	1.5	/W

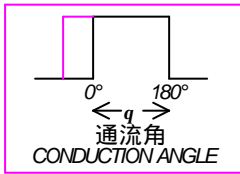
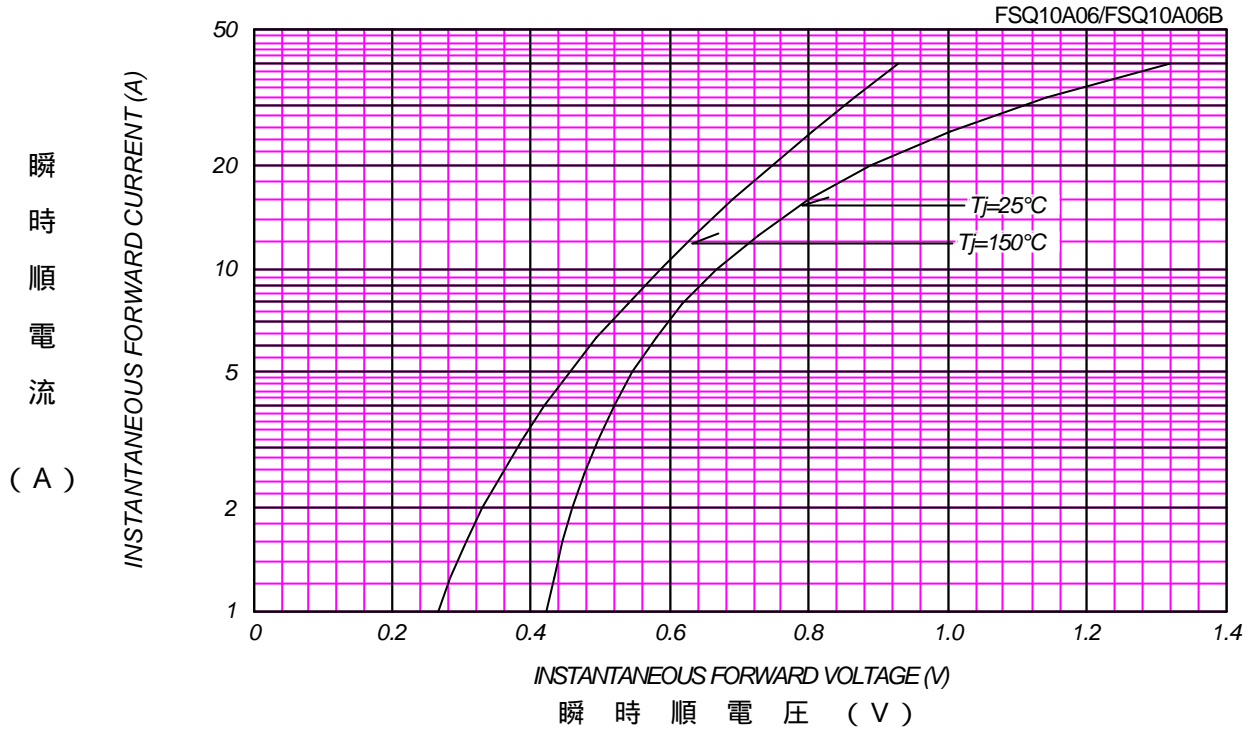
F S Q\_A\_B外形図 (mm)



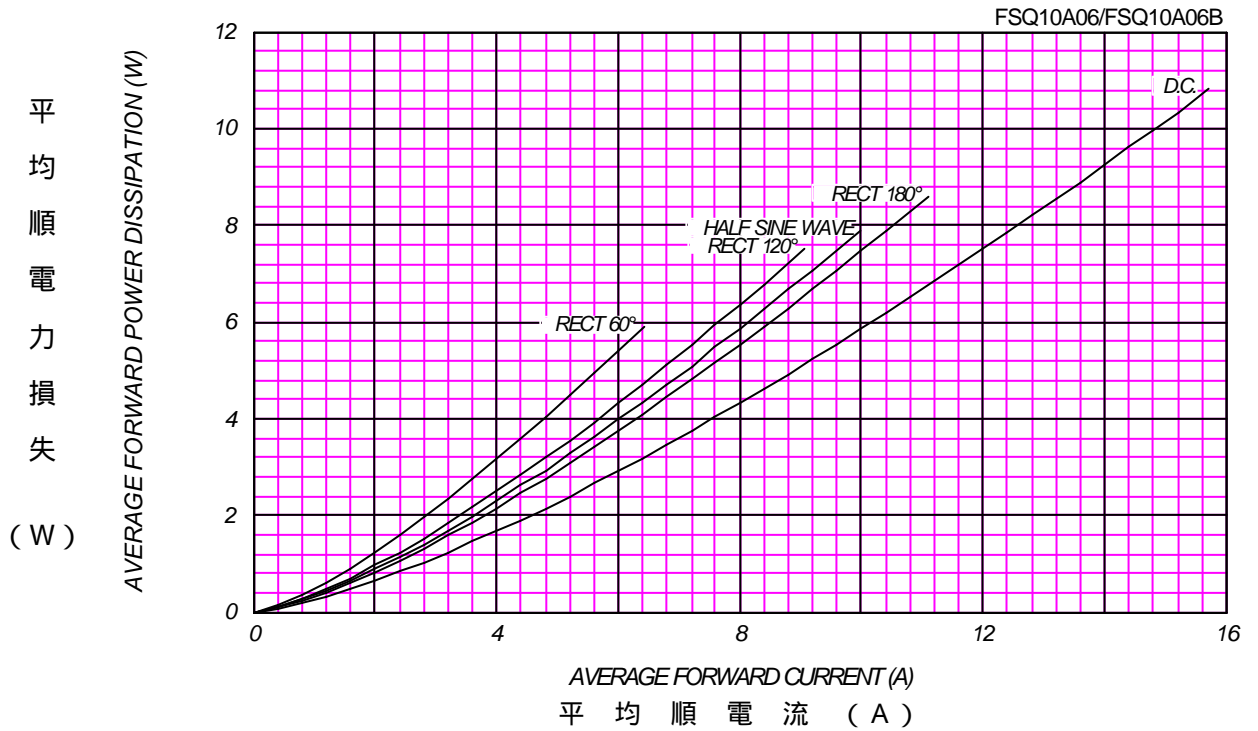
Single Chip



順電壓特性  
FORWARD CURRENT VS. VOLTAGE

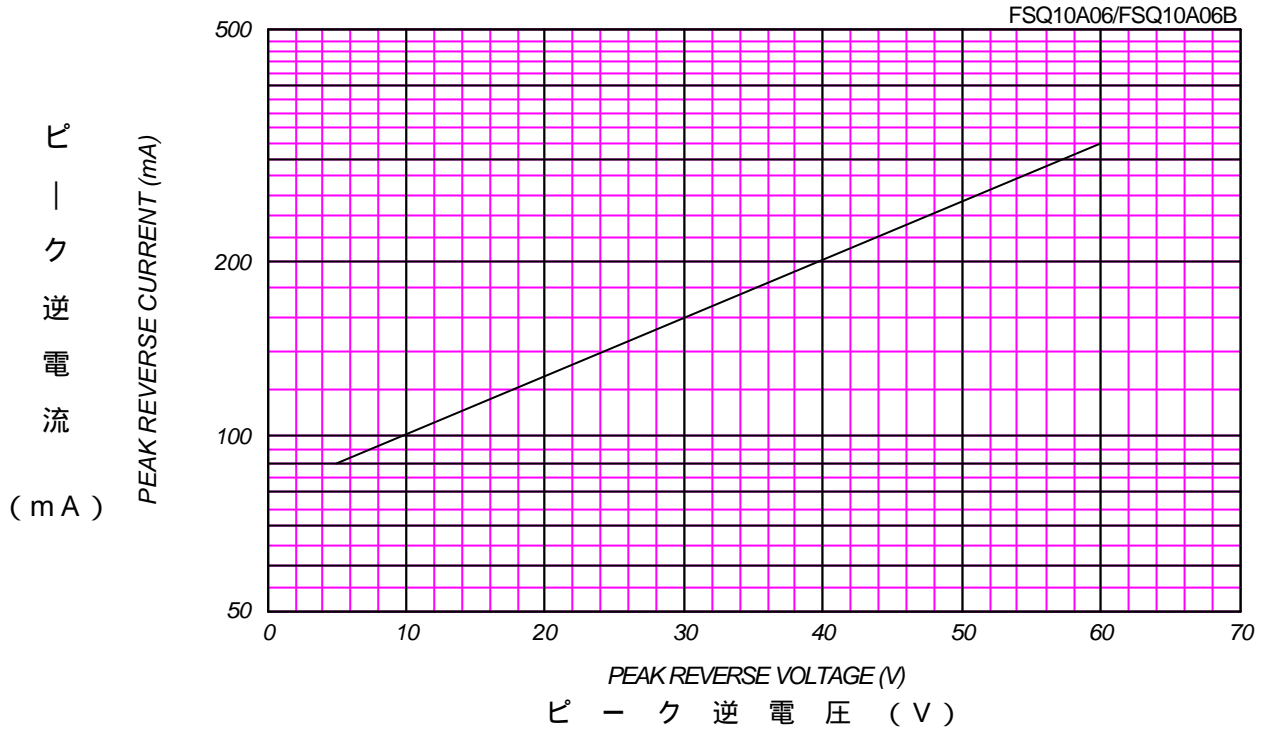


平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

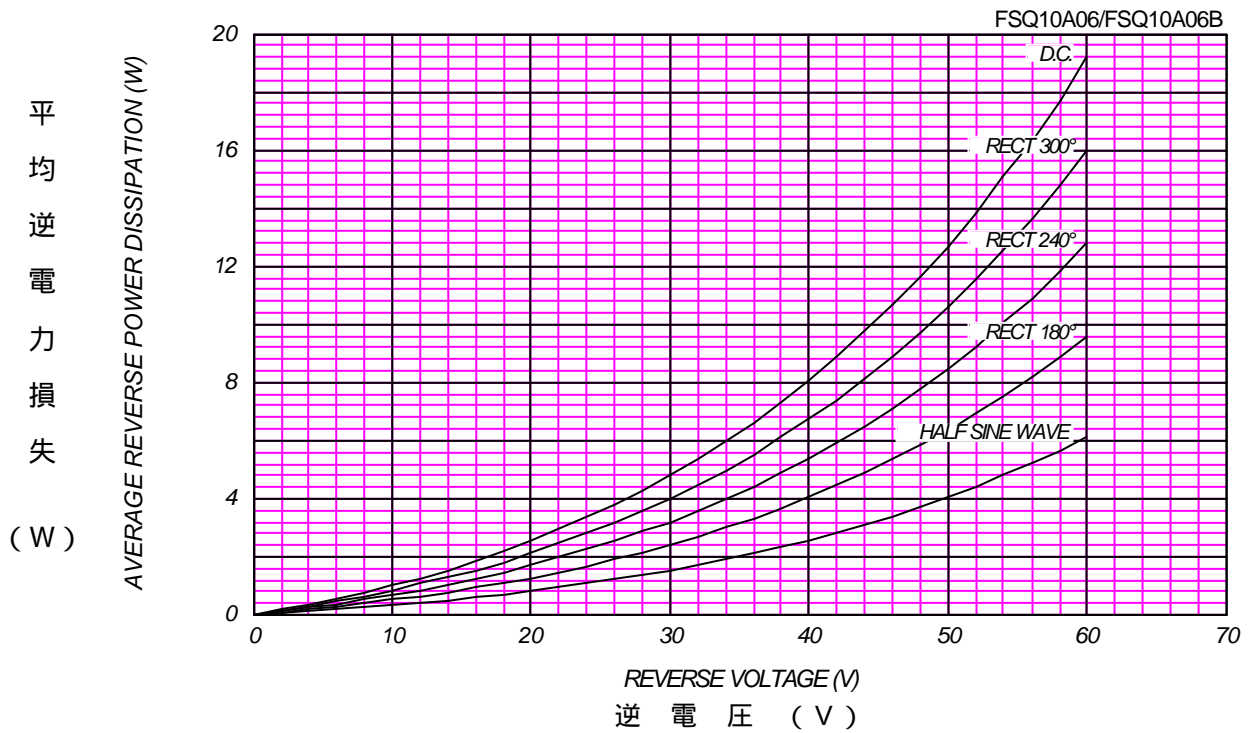


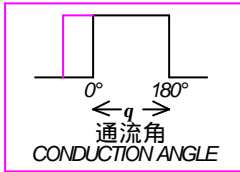
ピーク逆電流 - ピーク逆電圧特性  
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

T<sub>j</sub> = 150 °C



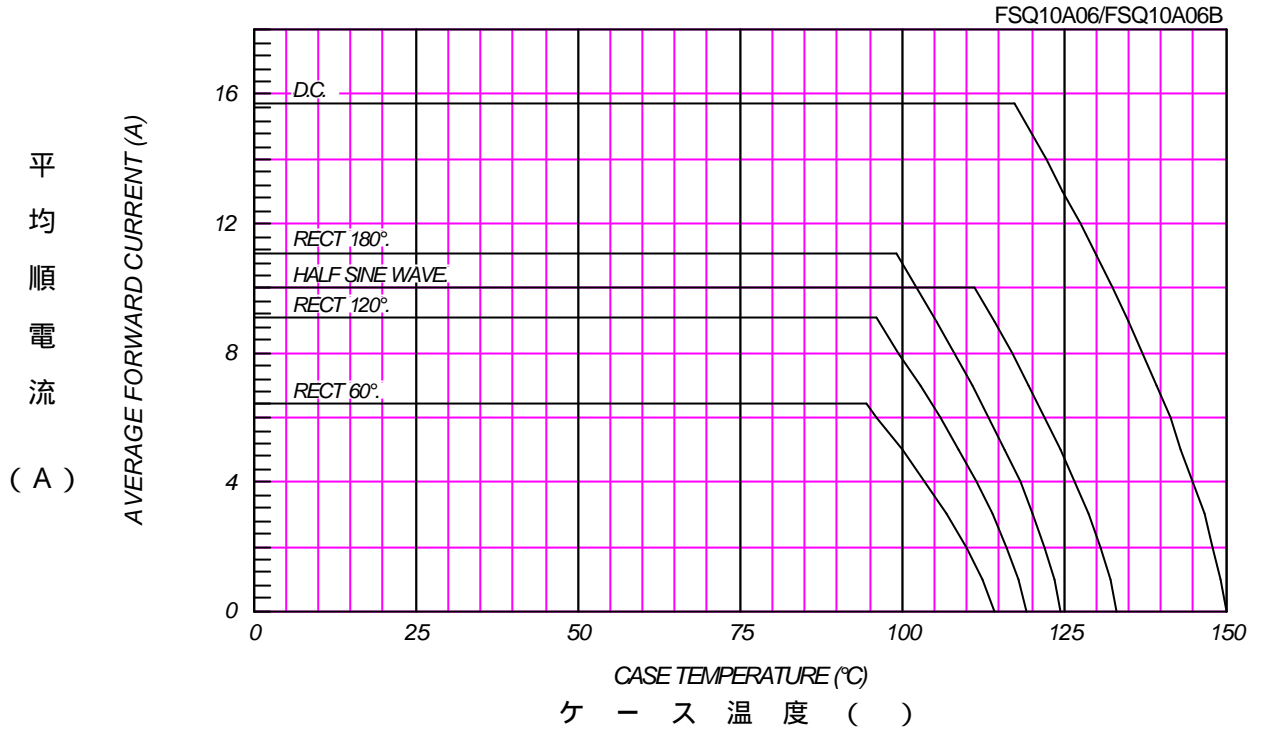
平均逆電力損失  
 AVERAGE REVERSE POWER DISSIPATION





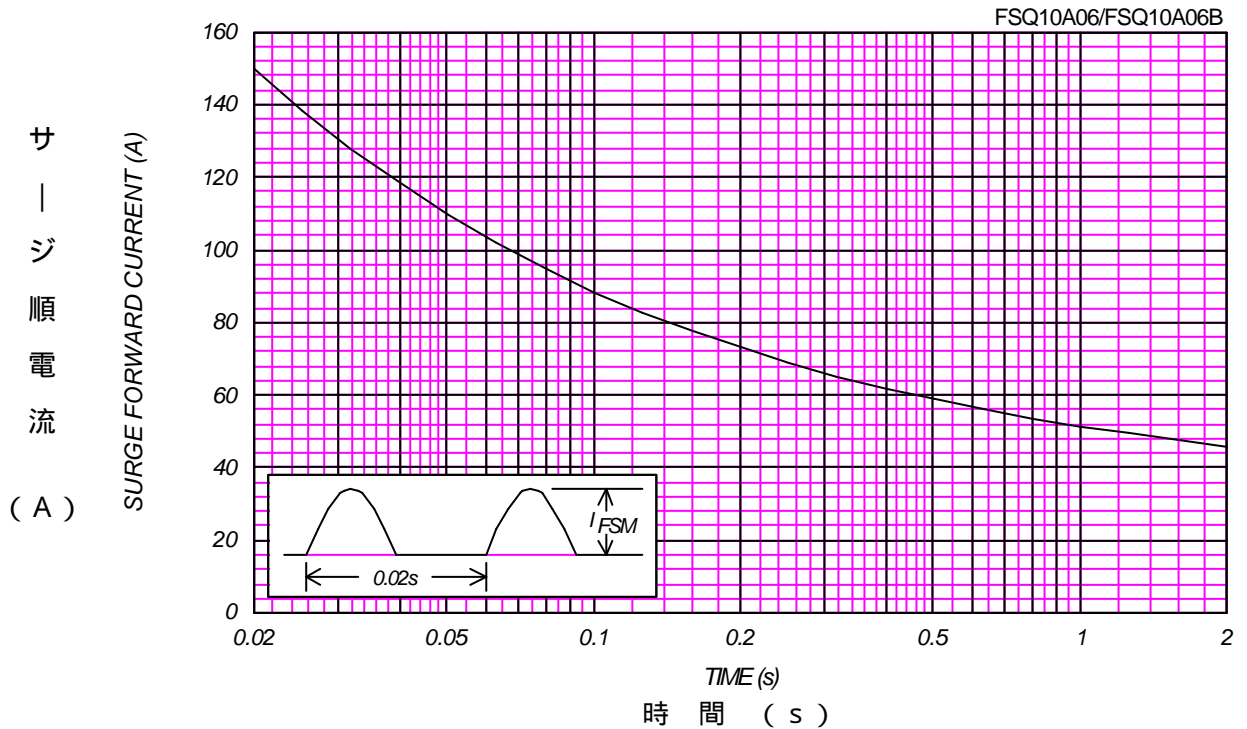
平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60V$



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

