

SBD Type : FSH10A15

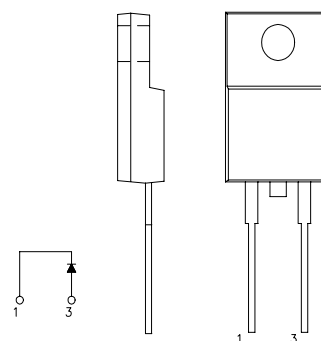
■ OUTLINE DRAWING

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

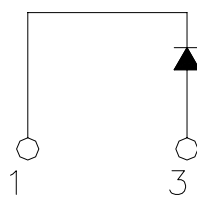
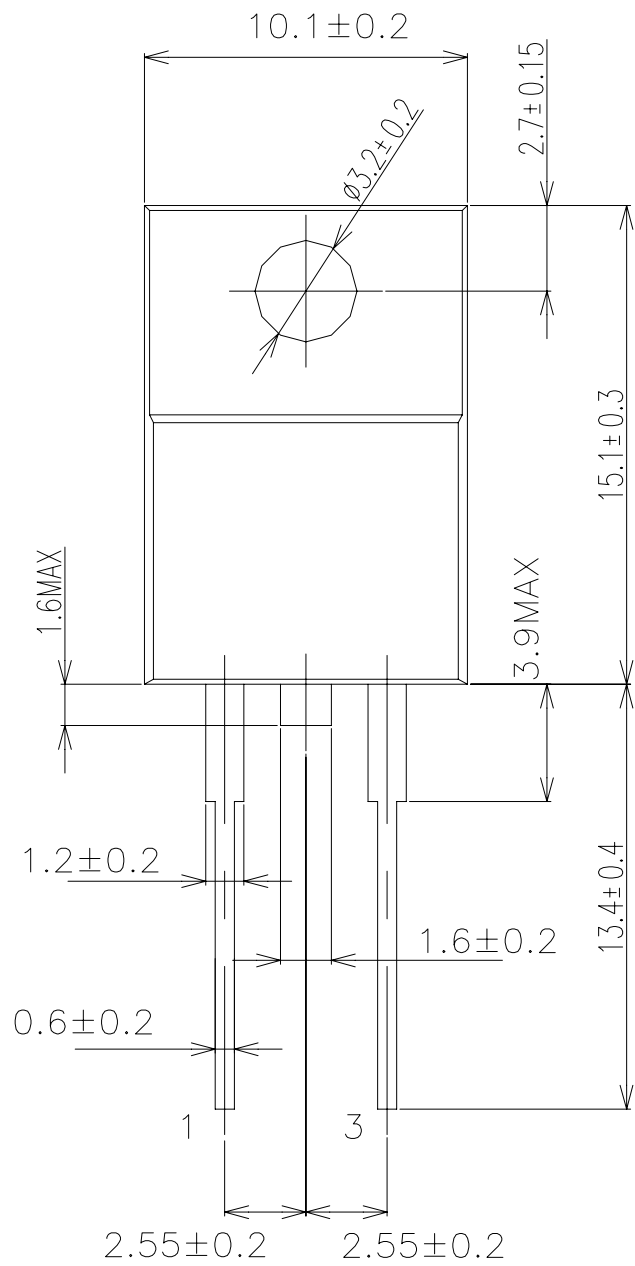
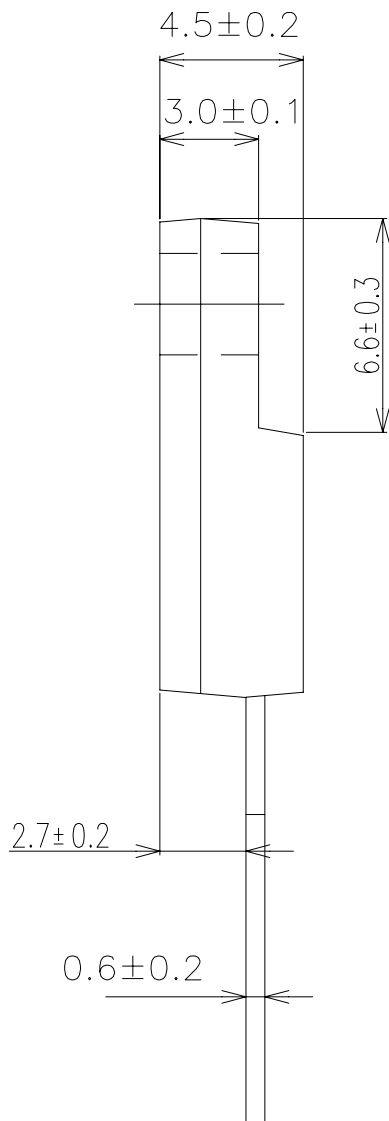
Approx Net Weight:1.7g

Rating	Symbol	FSH10A15			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	150			V
平均整流電流 Average Rectified Output Current	I _O	10	Tc=120	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}	180	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

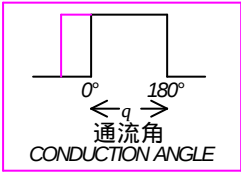
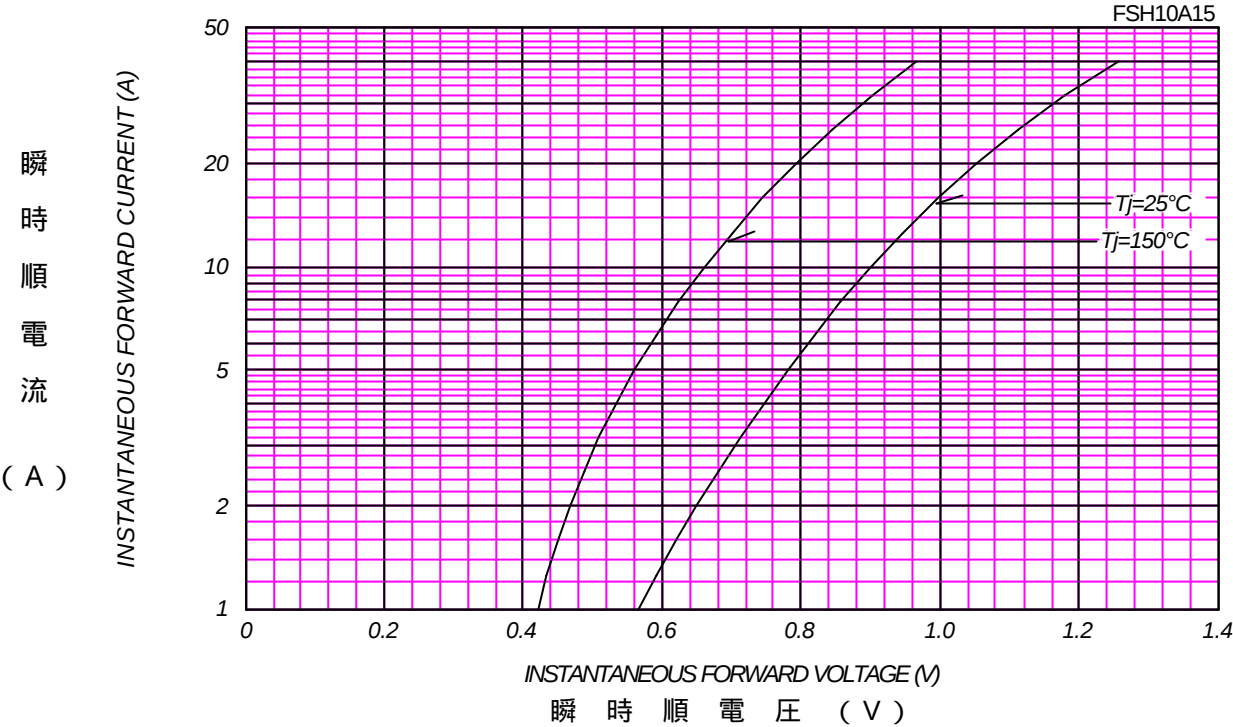
■ 電氣的・熱的特性 / Electrical・Thermal Characteristics

Characteristics		Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current		I_{RM}	$T_j = 25$, $V_{RM} = V_{RRM}$	-	-	1	mA
ピーク順電圧 Peak Forward Voltage		V_{FM}	$T_j = 25$, $I_{FM} = 10$ A	-	-	0.9	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

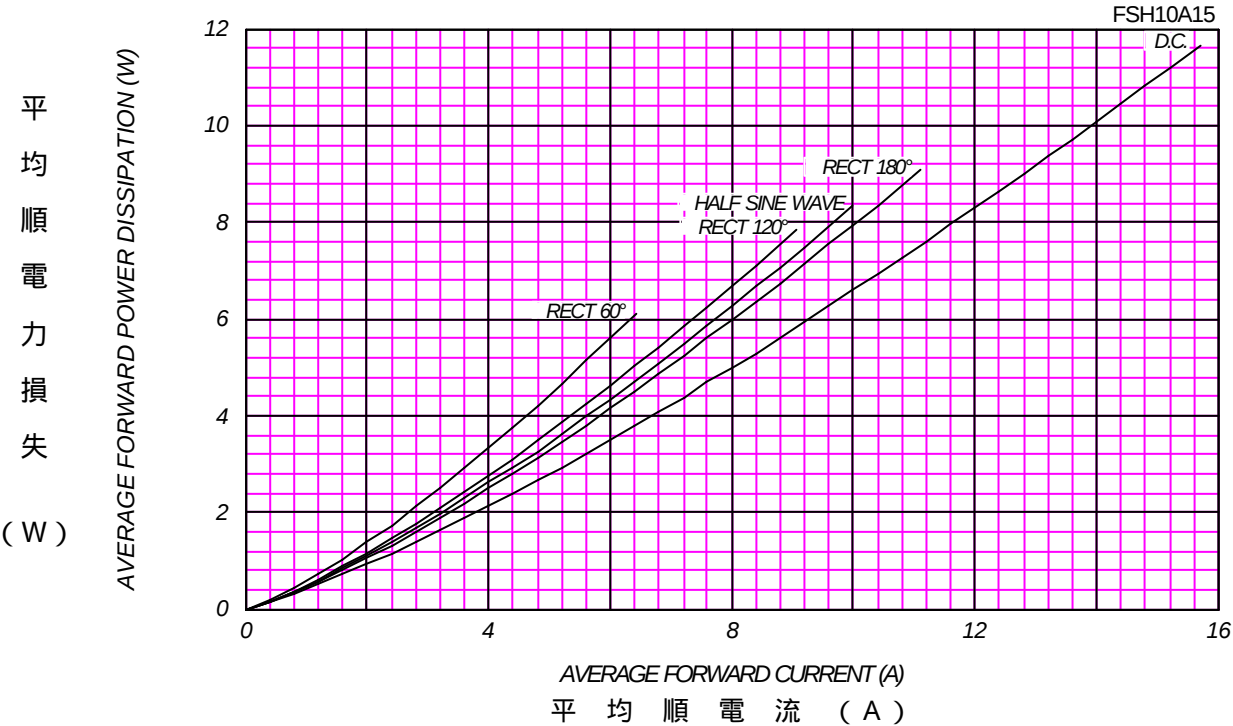
F S H_A_外形図 (mm)



順電壓特性
FORWARD CURRENT VS. VOLTAGE

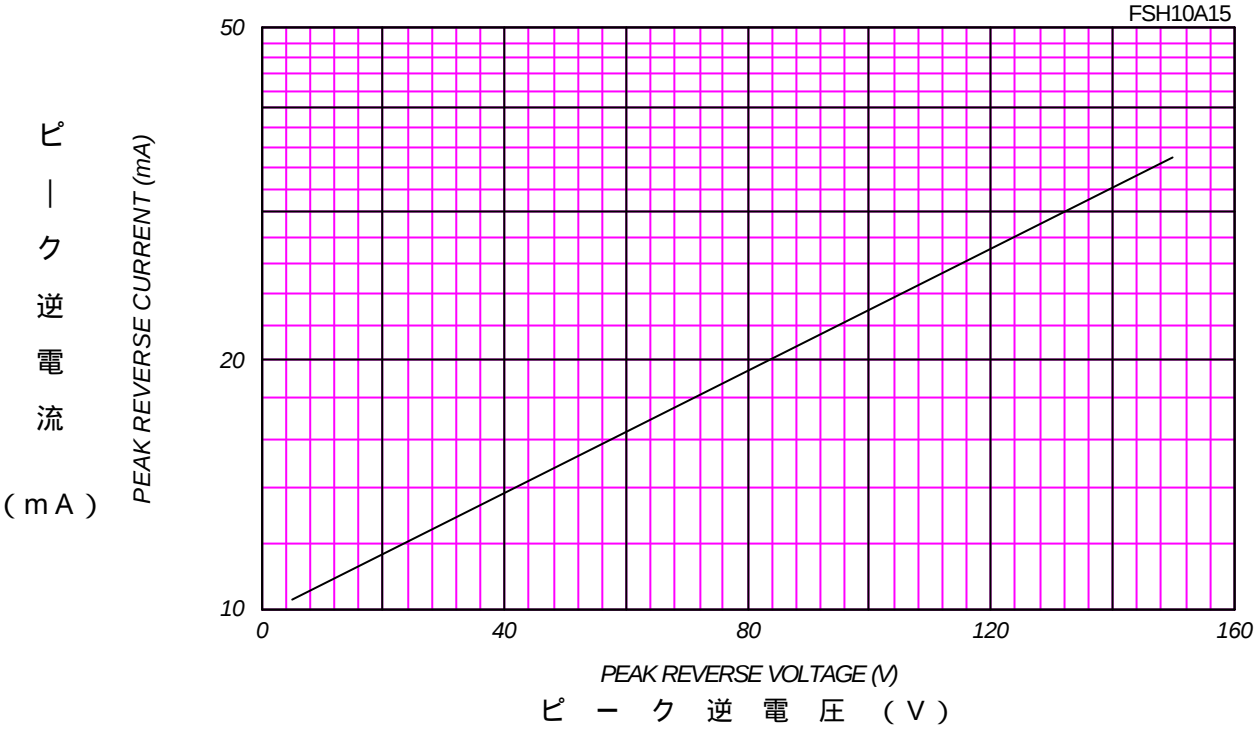


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

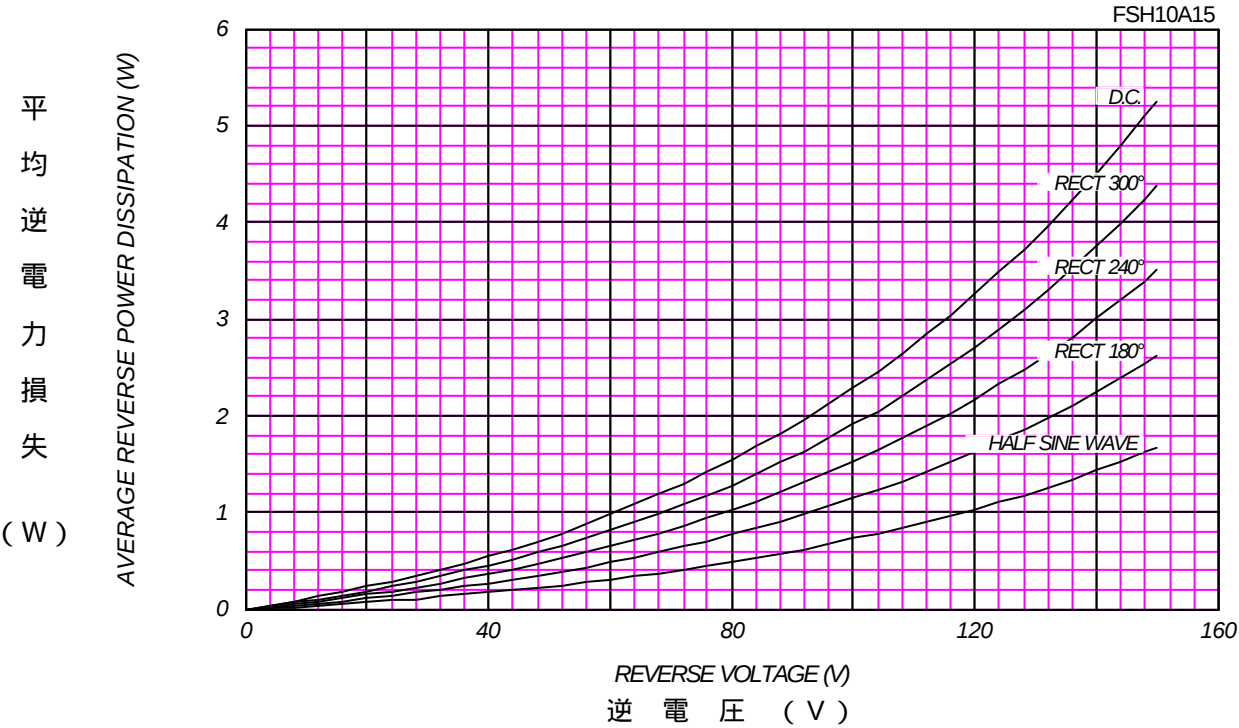


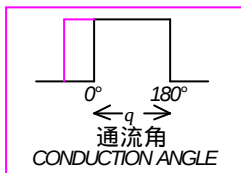
ピーク逆電流 - ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150 °C



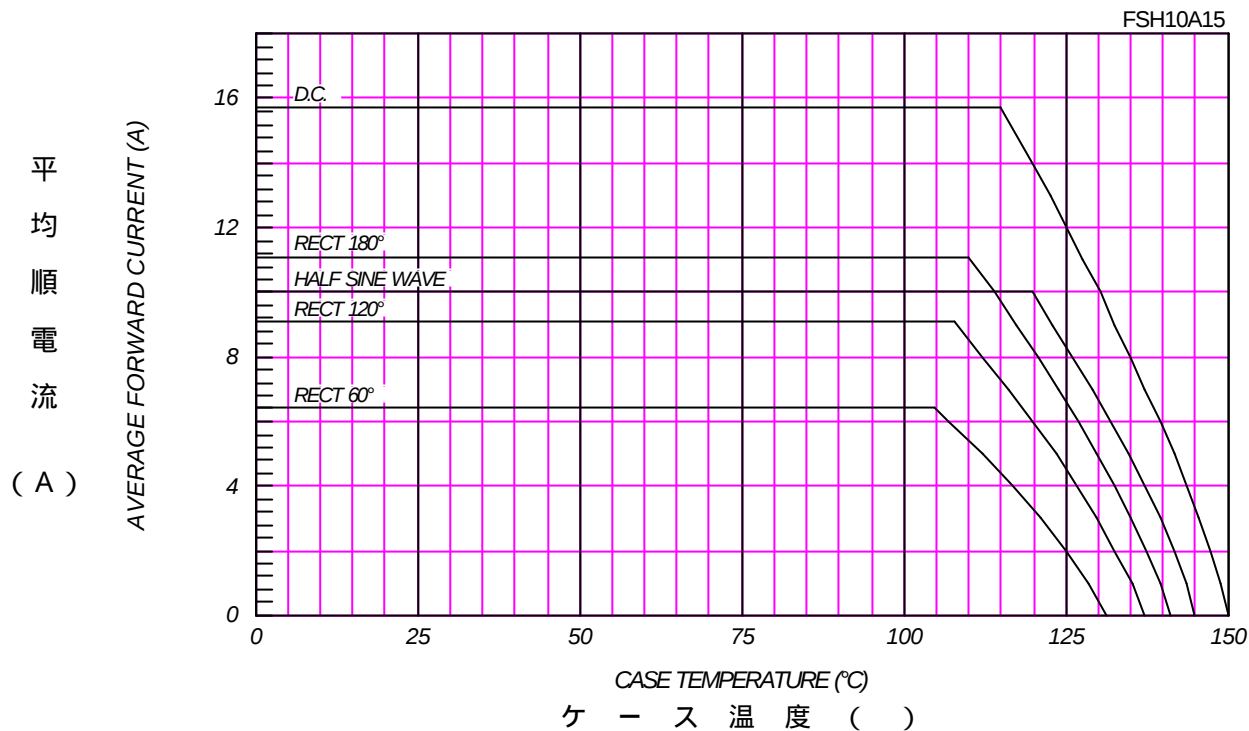
平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION





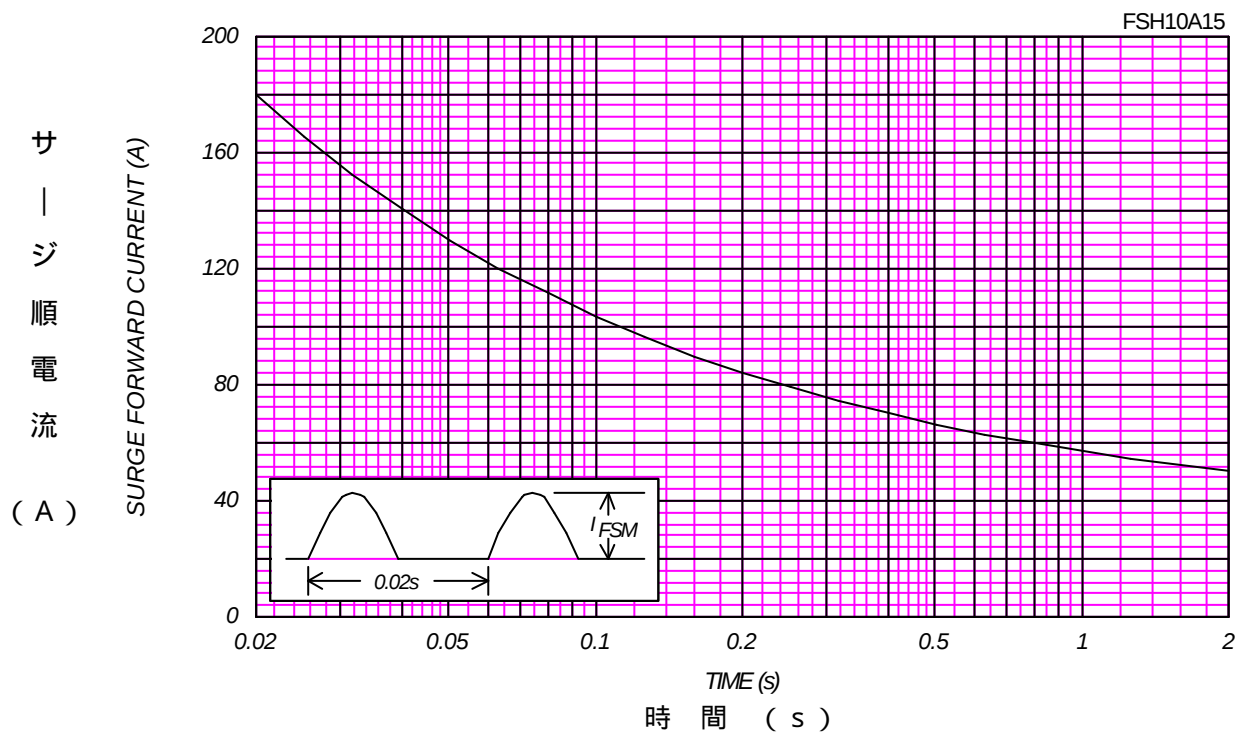
平均順電流 - ケース温度定格 AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=150V$



サージ順電流定格 SURGE CURRENT RATINGS

$f=50Hz$, 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

FSH10A15

