

10A 400V 40ns
FRD Type FSU10A40

OUTLINE DRAWING

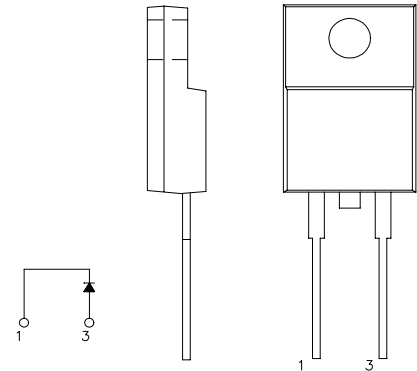
構造 : 拡散型シリコンダイオード(FRD)

Diffusion type Silicon diode

Axial Lead Type

用途 : 高周波整流用

Application: High Frequency Rectification


最大定格 MAXIMUM RATINGS($T_a = 25$: unless otherwise specified)

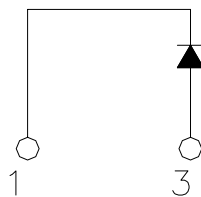
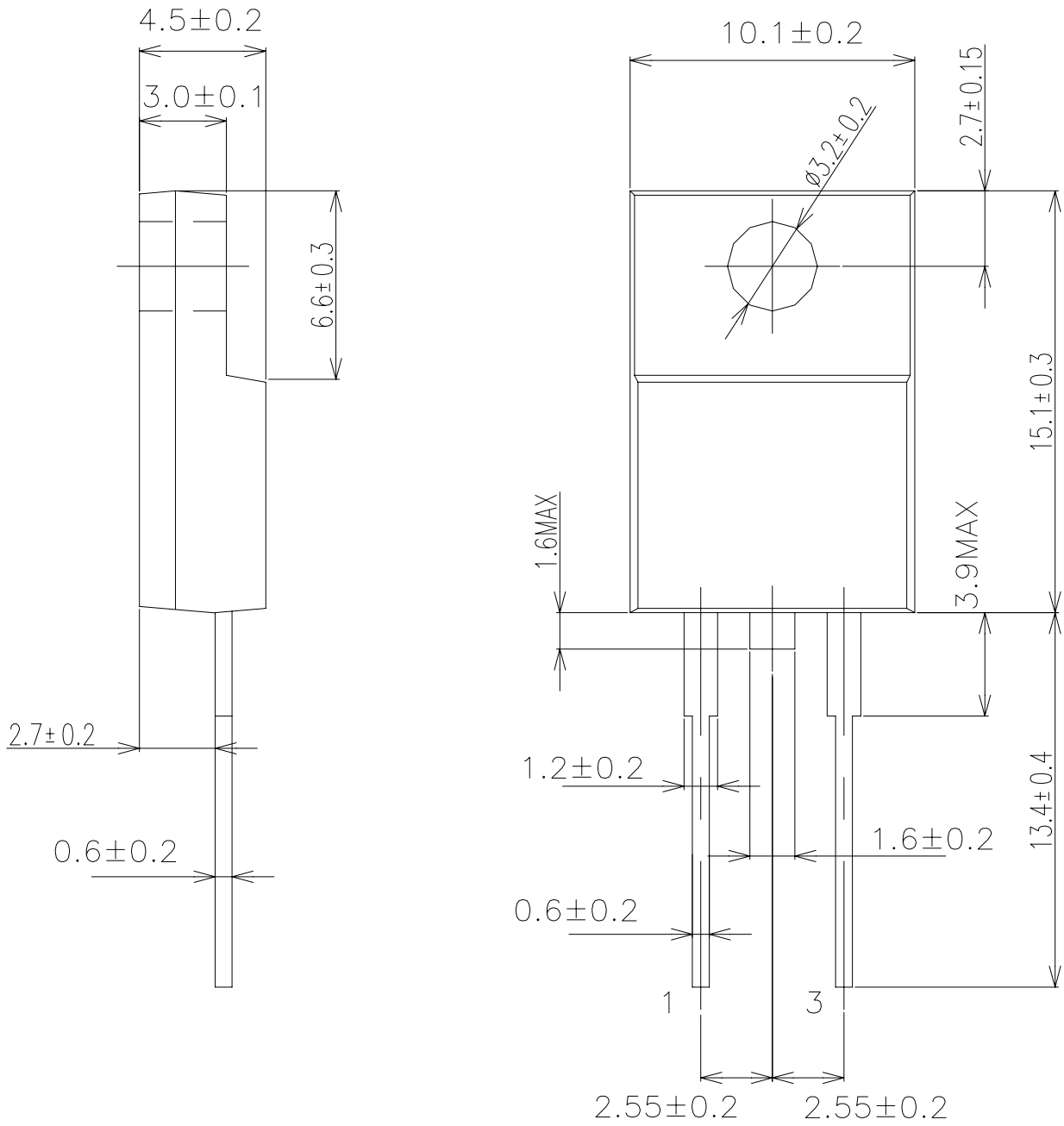
Approx Net Weight:1.7g

Item	Symbol	Condition	Max. Rated value	Unit
くり返しピーク逆電圧 Repetitive peak reverse voltage	V_{RRM}		400	V
平均整流電流 Average rectified forward current	I_o	50Hz 正弦半波, 抵抗負荷 $T_c = 86^\circ\text{C}$ 50Hz Halfsine wave, Resistance load	10	A
実効順電流 R.M.S. forward current	$I_{F(RMS)}$		15.7	A
サージ順電流 Surge forward current	I_{FSM}	50Hz 正弦半波 1 サイクル 非くり返し 50Hz Halfsine wave 1cycle, non-repetitive	120	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	
締め付けトルク Mounting torque	F_{tor}	推奨値 Recommended value	0.5	N·m

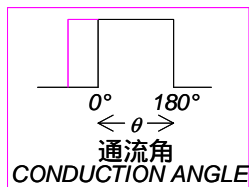
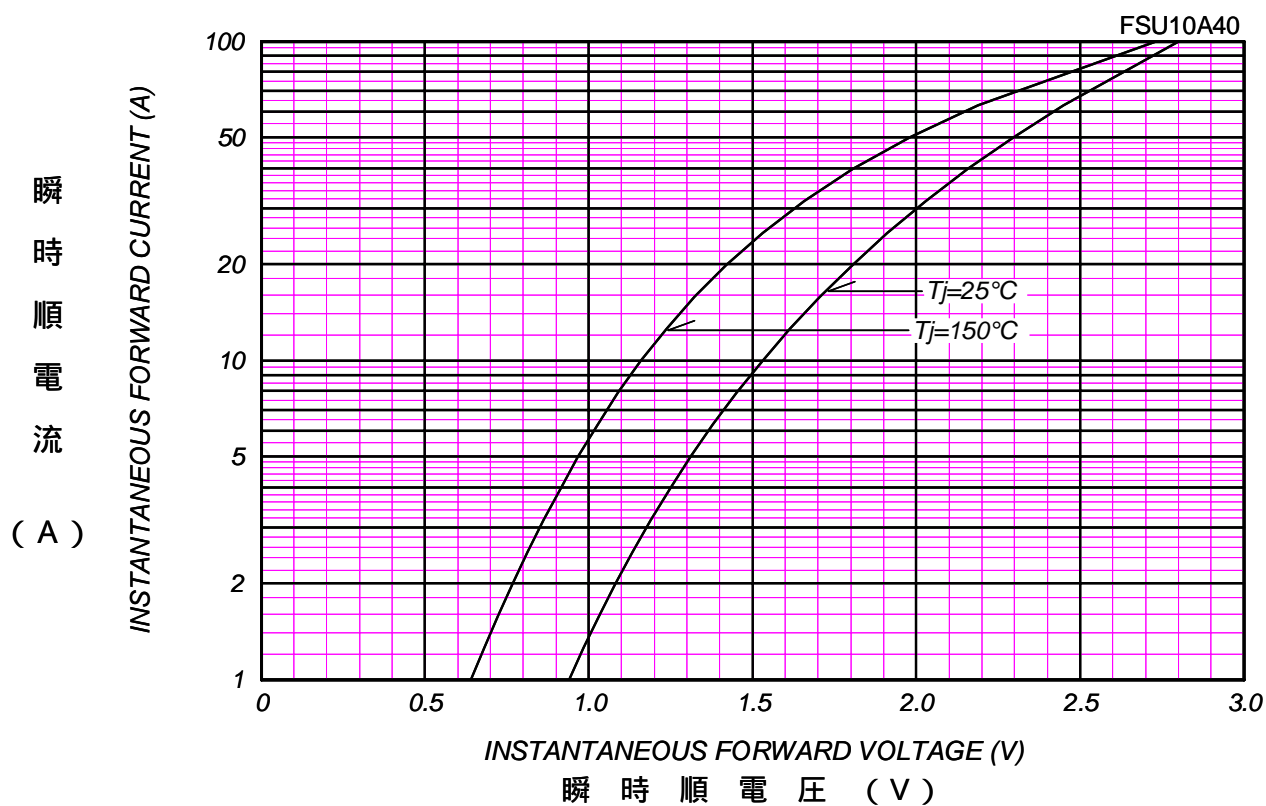
電氣的・熱的特性 ELECTRICAL / THERMAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak reverse current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25$	-	-	30	μA
ピーク順電圧 Peak forward voltage	V_{FM}	$I_{FM} = 10\text{A}$ $T_j = 25$	-	1.34	1.53	V
逆回復時間 Reverse recovery time	t_{rr}	$I_{FM} = 10\text{A}$ $T_j = 25$ - $di/dt = 50\text{A}/\mu\text{s}$	-	30	40	ns
熱抵抗 Thermal resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to case	-	-	4	/W
	$R_{th(c-f)}$	ケース・フィン間 case to fin	-	-	1.5	/W

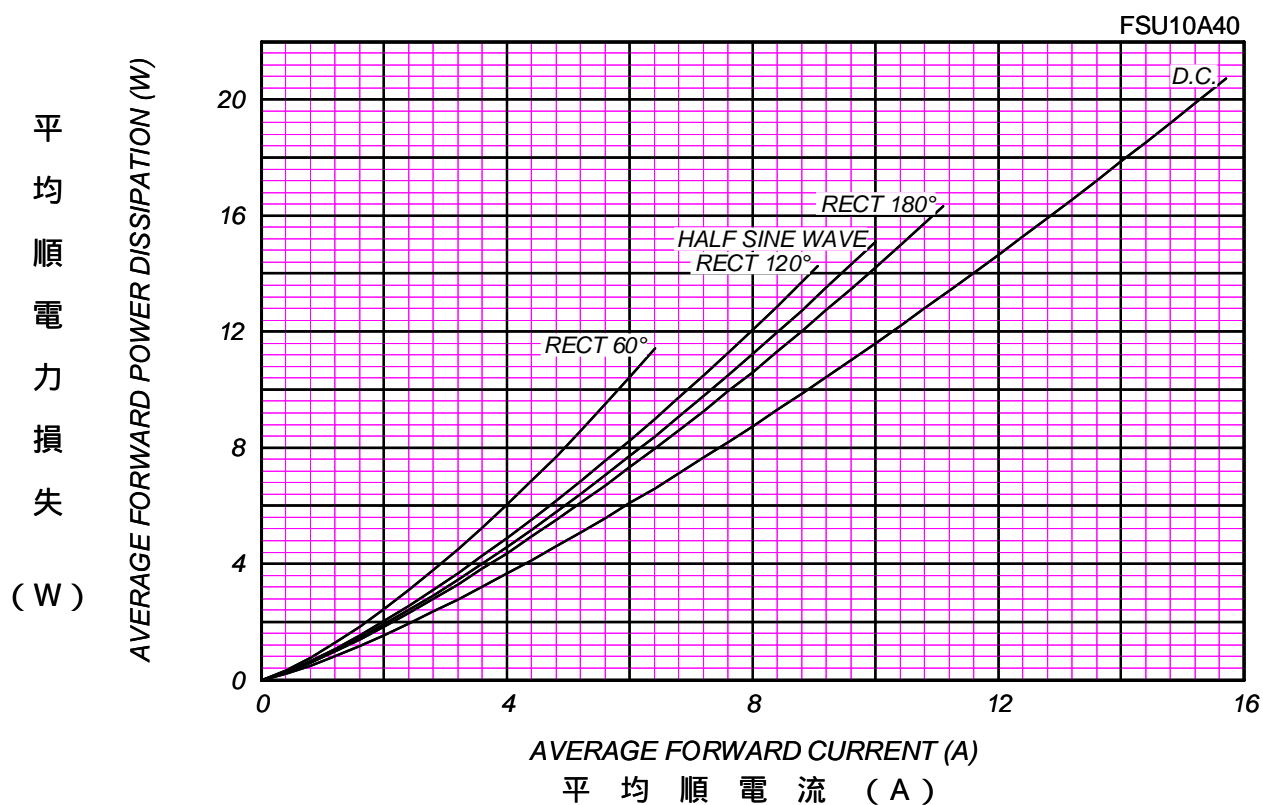
F S U_A_外形図 (mm)

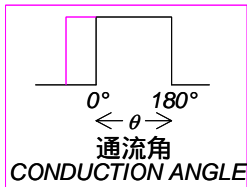


順電压特性
FORWARD CURRENT VS. VOLTAGE

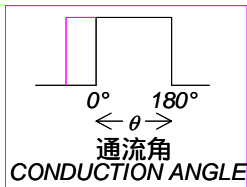
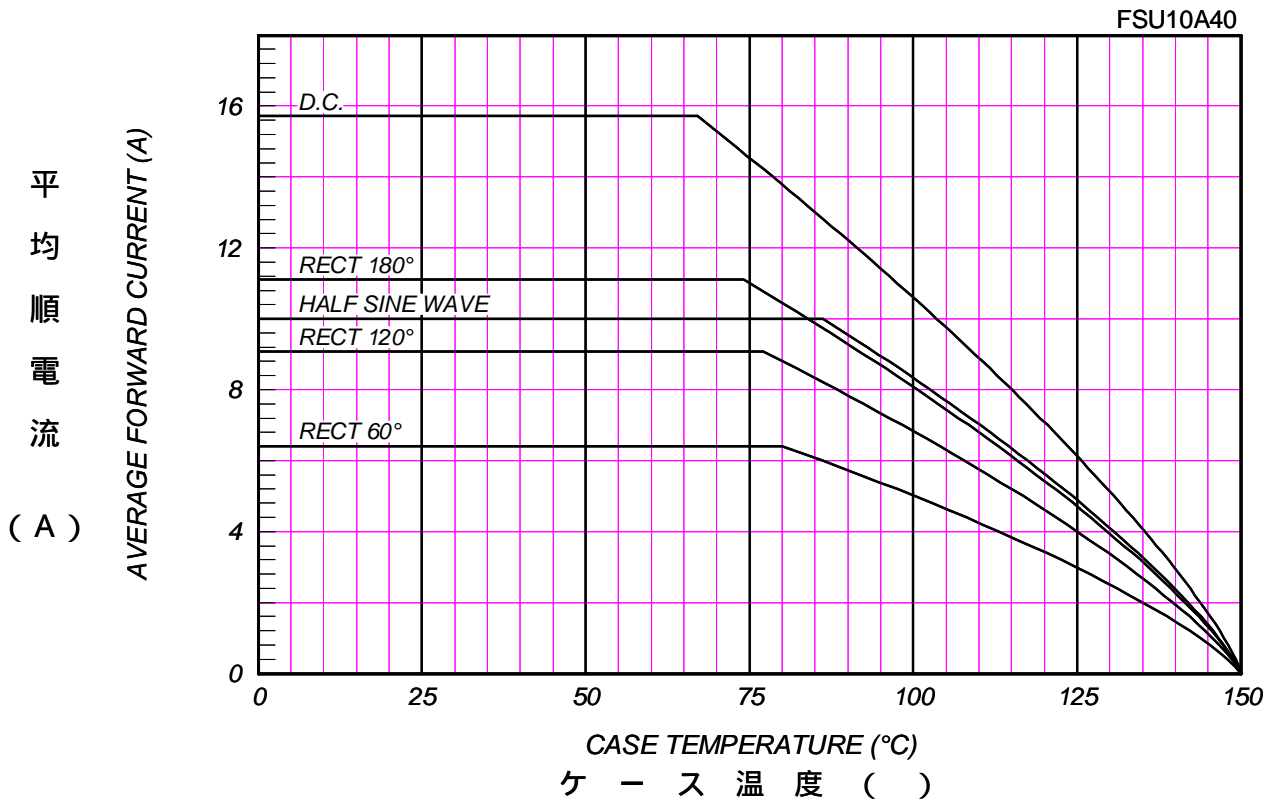


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

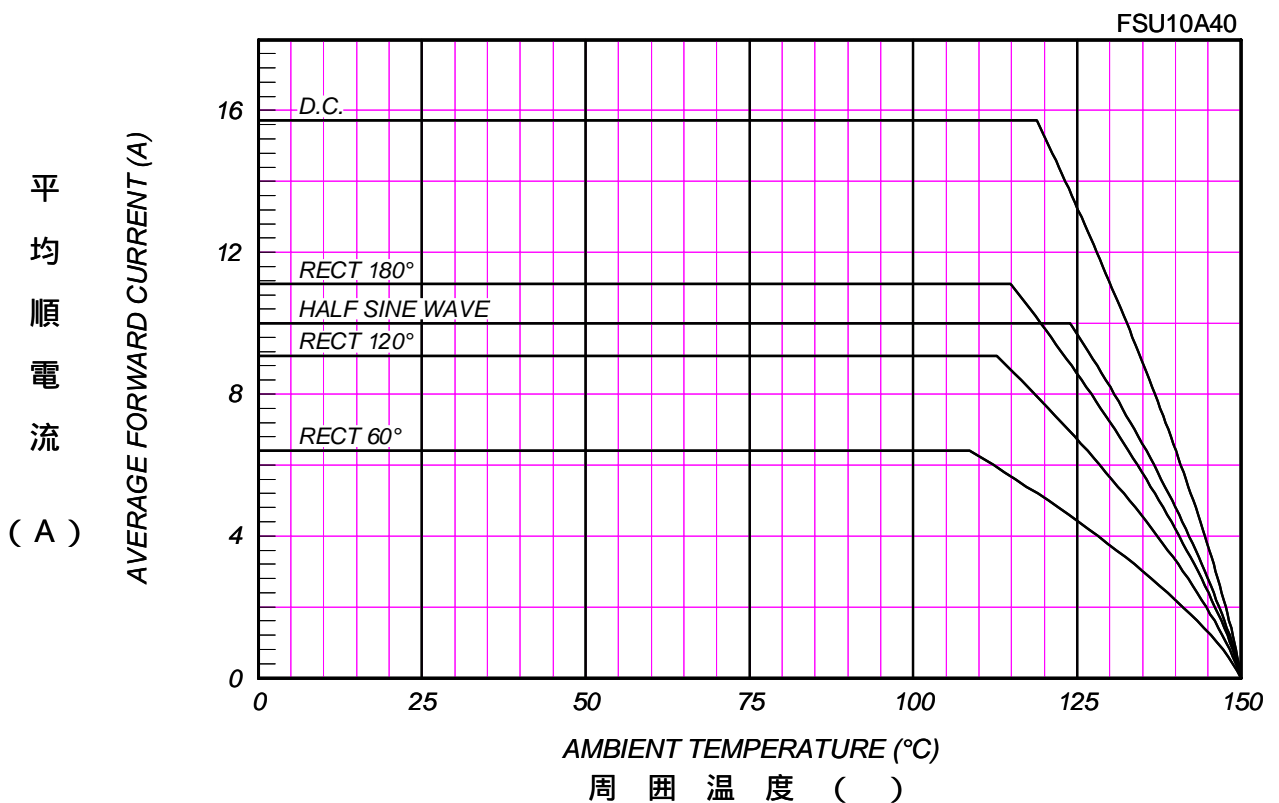




平均順電流 - ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE



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



サージ順電流定格 SURGE CURRENT RATINGS

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

FSU10A40

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