

5A Avg.

400 Volts

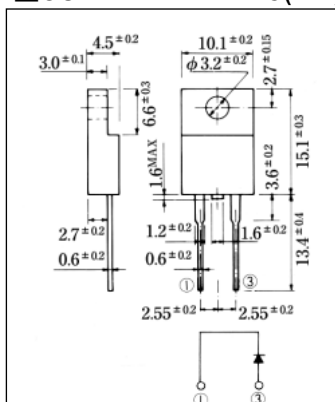
FRED

FSU05A40

■最大定格 Maximum Ratings

Item	Symbol	Conditions		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、正弦半波通電抵抗負荷 50Hz Half Sine Wave Resistive Load	T _c =111℃	5	A
実効順電流 R.M.S. Forward Current	I _F (RMS)	7.85		A	
サージ順電流 Surge Forward Current	I _{FSM}	80	50Hz正弦半波, 1 サイクル, 非くり返し 50Hz 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		℃	
締付トルク Mounting torque	F _{tor}	推奨値 Recommended Value	0.5	N・m	

■ OUTLINE DRAWING(mm)



■ APPROX. NET WEIGHT:1.7g

■電氣的・熱的特性 Electrical/Thermal Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j=25^{\circ}\text{C}$, $V_{RM}=V_{RRM}$	—	—	30	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}\text{C}$, $I_{FM}=5\text{A}$	—	1.34	1.53	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=5\text{A}$, $-di/dt=50\text{ A}/\mu\text{s}$, $T_j=25^{\circ}\text{C}$	—	22	32	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	5	$^{\circ}\text{C}/\text{W}$
	$R_{th(c-f)}$	ケース・フィン間 Case to Fin	—	—	1.5	$^{\circ}\text{C}/\text{W}$

■定格・特性曲線

FIG.1
順電圧特性
FORWARD CURRENT VS. VOLTAGE

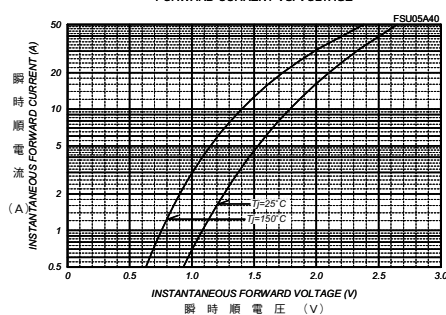


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

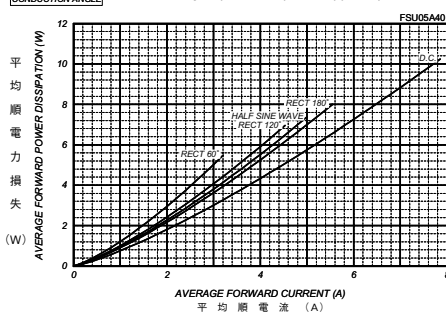


FIG.3
平均順電流—ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

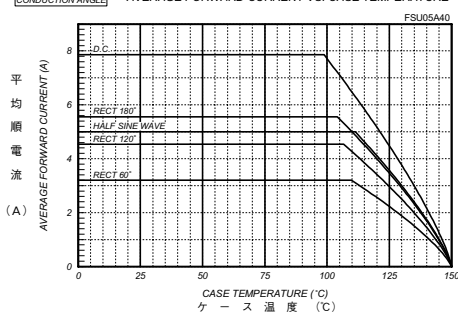


FIG.4
サージ順電流定格
SURGE CURRENT RATINGS
f=50Hz,Half Sine Wave,Non-Repetitive,No Load

