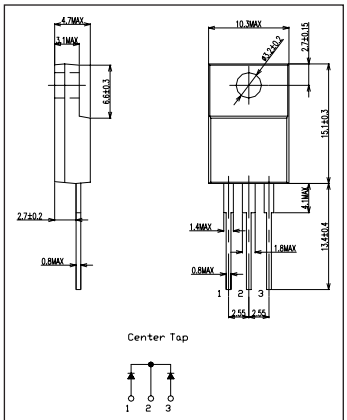
16A Avg. 400 Volts FRED FCF16A40

■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
非くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RSM}	440		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, Tc=109℃	16	A
実効順電流 R.M.S. Forward Current	$I_{F(RMS)}$	18		A
サージ順電流 Surge Forward Current	I_{FSM}	120 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:1.75g

■電気的・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℃, $V_{RM}=V_{RRM}$	—	—	30	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	T_j=25℃, I_{FM}=8A	—	—	1.25	V
逆回復時間 Reverse Recovery Time	trr	I_{FM}=8A, -di/dt=50 A/μs, T_j=25℃	—	—	45	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部·ケース間 Junction to Case	—	—	2	℃/W
	$R_{th(c-f)}$	ケース·フィン間 Case to Fin	—	—	1.5	℃/W

■定格・特性曲線

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

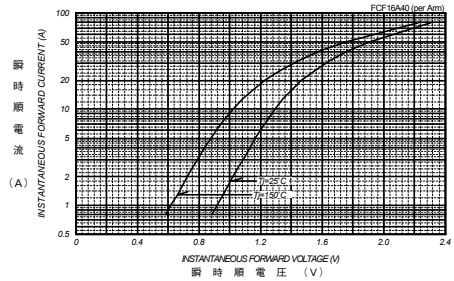


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

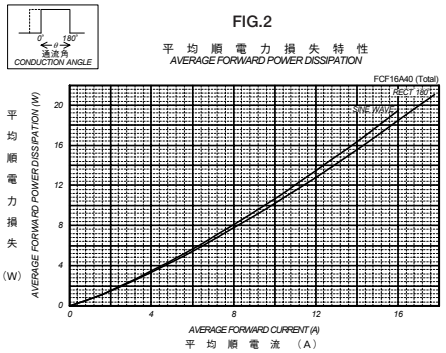


FIG.3
平均順電流ーケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

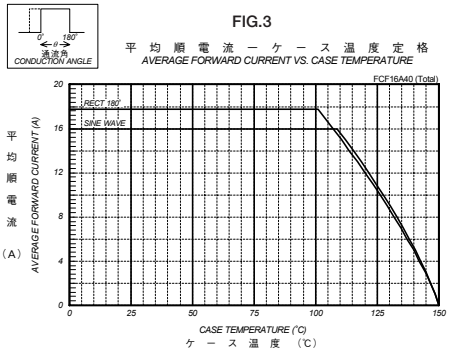
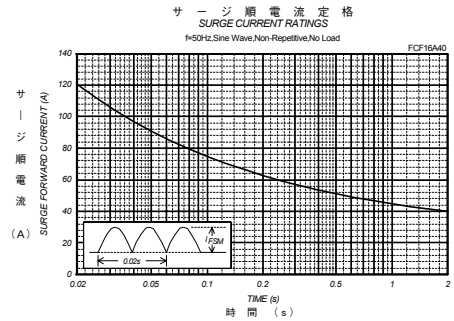



FIG.4
サージ順電流定格
SURGE CURRENT RATINGS