

20A Avg.

200 Volts

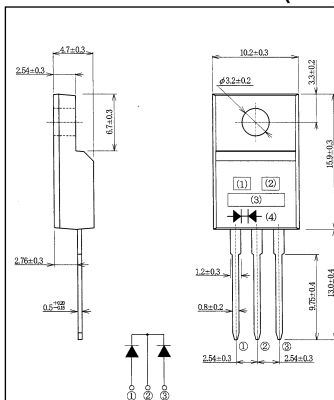
FRD

FCU20UC20

■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}	200			V
平均整流電流 Average Rectified Forward Current	I_O	50Hz、正弦全波抵抗負荷 50Hz Full Sine Wave Resistive Load	$T_c=104^{\circ}C$	20	A
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	22.2			A
サージ順電流 Surge Forward Current	I_{FSM}	120	50Hz正弦全波、1サイクル、非くり返し 50Hz Full Sine Wave, 1cycle, Non-repetitive		A
動作接合温度範囲 Operating Junction Temperature Range	T_{jw}	-40~+150			°C
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+150			°C
締付トルク Mounting torque	F_{tor}	推奨値 Recommended Value			0.5 N・m

■ OUTLINE DRAWING(mm)



■ APPROX. NET WEIGHT: 2.20 g

■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}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$, 一素子あたり Per Diode	—	—	25	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 10\text{A}$, 一素子あたり Per Diode	—	0.90	1.08	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM} = 10\text{A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_j = 25^\circ\text{C}$	—	22	31	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	2	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	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

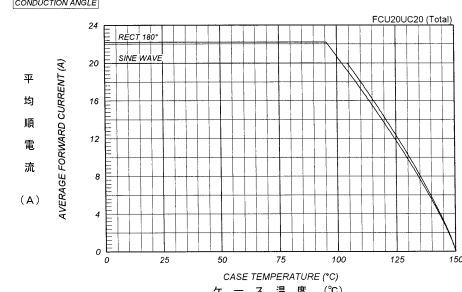
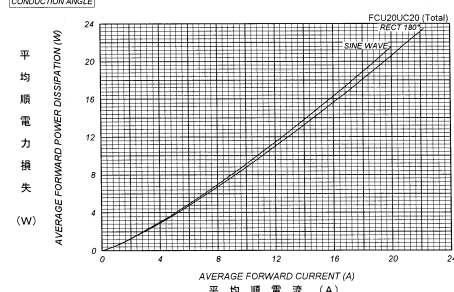
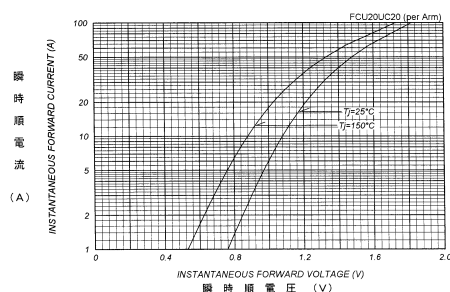


FIG.4
サージ順電流定格
SURGE CURRENT RATINGS
f=50Hz Sine Wave Non-Repetitive No Load

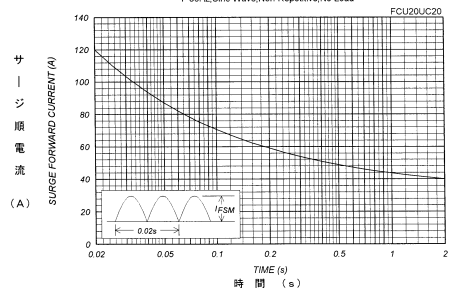


FIG.5
サージ実効順電流定格
RMS SURGE CURRENT RATINGS
 Ta=40°C Non-Repetitive No Load

