

30A Avg.

100 Volts

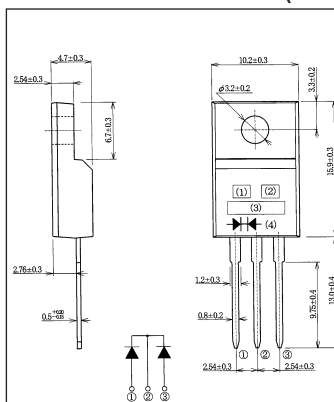
SBD

FCH30U10

■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}	100		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, Resistance Load	T _c =106℃	30	A
実効順電流 R.M.S. Forward Current	I _F (RMS)	33.3		A	
サージ順電流 Surge Forward Current	I _{FSM}	250	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		℃	
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:1.8g

■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}	$T_j = 25^{\circ}C$, $V_{RM} = V_{RRM}$, 一素子あたり Per Diode	—	—	2	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}C$, $I_{FM} = 15A$, 一素子あたり Per Diode	—	—	0.88	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	1.5	$^{\circ}C/W$
	$R_{th(c-f)}$	ケース・フィン間 Case to Fin	—	—	1.5	$^{\circ}C/W$

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

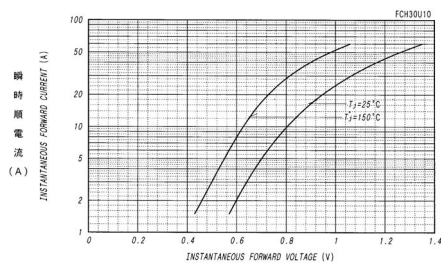


FIG.2

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

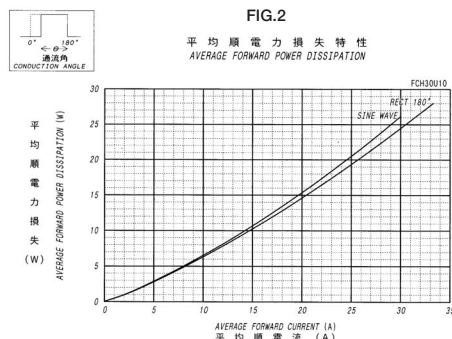


FIG.3

ピーク逆電流 - ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE
Tj = 150°C

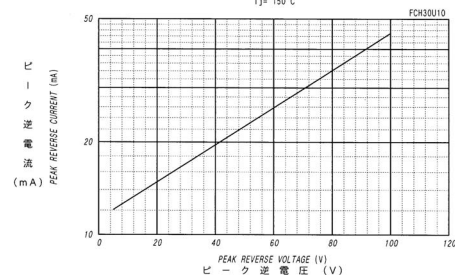


FIG.4

平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

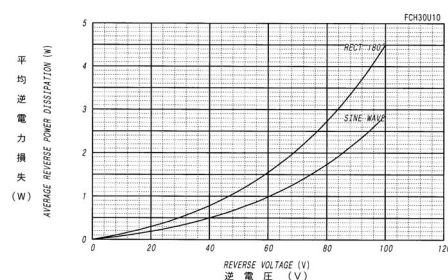


FIG.5

平均順電流—ケース温度定格
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE
V_{RM}=100V

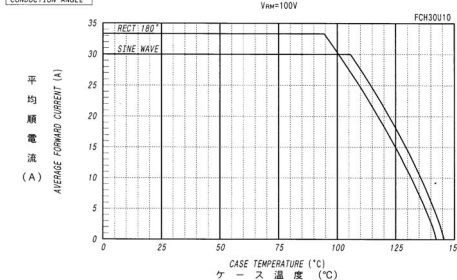


FIG.6

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

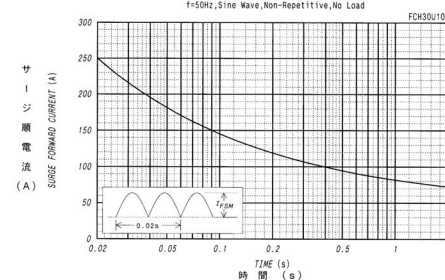


FIG.7

接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE
Tj=25°C, Vn=20mVrms, f=100kHz, Typical Value

