

10A Avg.

60 Volts

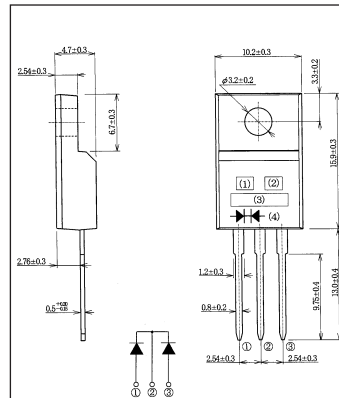
SBD

FCQ10U06

■最大定格 Maximum Ratings

Item	Symbol	Conditions	Unit	
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V	
非くり返しピーク逆電圧 Non-repetitive Peak Reverse Voltage	$V_{RSM}$	65	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	$T_c=108^{\circ}C$ 10	A
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	11.1	A	
サージ順電流 Surge Forward Current	$I_{FSM}$	110 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	$^{\circ}C$	
保存温度範囲 Storage Temperature Range	$T_{stg}$	-40~+150	$^{\circ}C$	
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	$I_{RM}$	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$ , 一素子あたり Per Diode	—	—	5	mA
ピーク順電圧 Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}C, I_{FM}=5A$ , 一素子あたり Per Diode	—	—	0.58	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	3	$^{\circ}C/W$
	$R_{th(c-f)}$	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

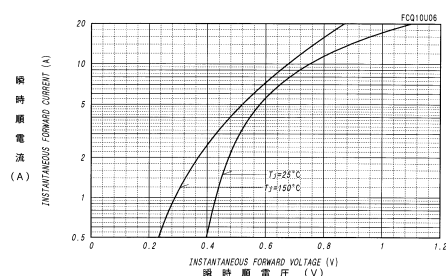


FIG.2

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

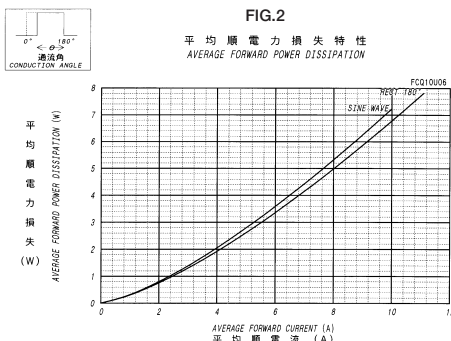


FIG.3

ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

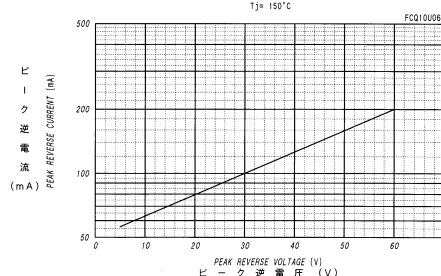


FIG.4

平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

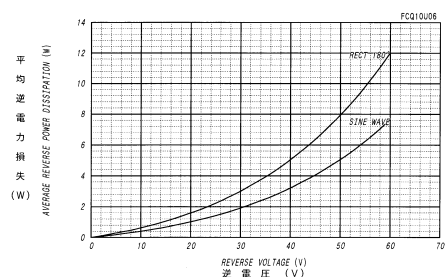


FIG.5

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

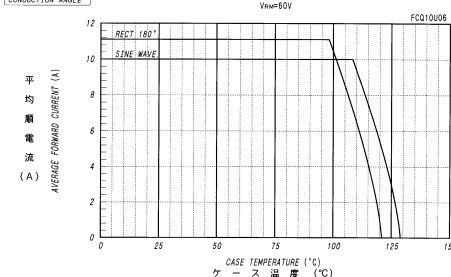


FIG.6

サージ順電流定格  
SURGE CURRENT RATINGS

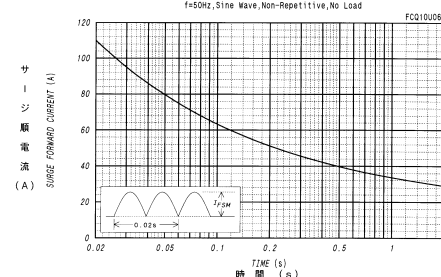


FIG.7

接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

