

20A Avg.

45 Volts

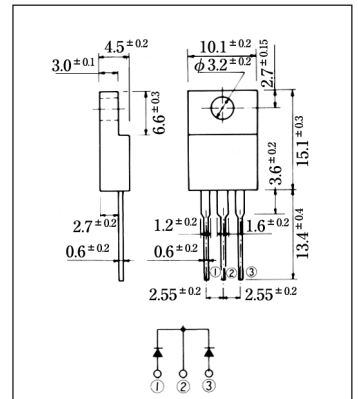
SBD

FCQS20B045

■最大定格 Maximum Ratings

Item	Symbol	Conditions			Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$	45			V
平均整流電流 Average Rectified Forward Current	$I_O$	50Hz, 正弦全波通電抵抗負荷 50Hz Full Sine Wave Resistive Load	$T_c=121^\circ\text{C}$ $V_{RM}=20\text{V}$	20	A
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	22.2			A
サージ順電流 Surge Forward Current	$I_{FSM}$	180 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			$^\circ\text{C}$
保存温度範囲 Storage Temperature Range	$T_{stg}$	-40~+150			$^\circ\text{C}$
締付トルク Mounting torque	$F_{tor}$	推奨値 Recommended Value			0.5 N·m

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:1.75g

■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	—	—	600	$\mu\text{A}$
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	—	—	0.57	V
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合部・ケース間 Junction to Case	—	—	2.0	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	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

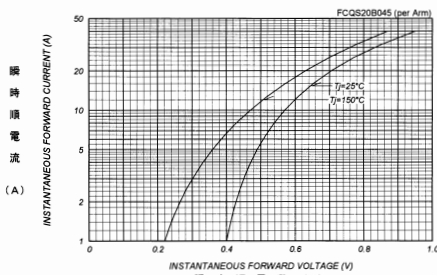


FIG.2 平均順電力損失特性  
AVERAGE FORWARD POWER DISSIPATION

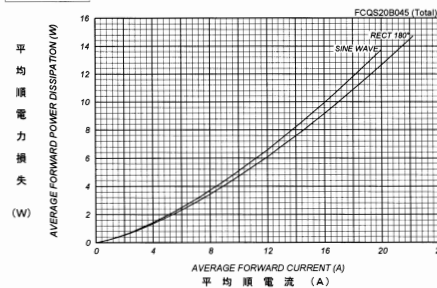


FIG.3 ピーク逆電流 - ピーク逆電圧特性  
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

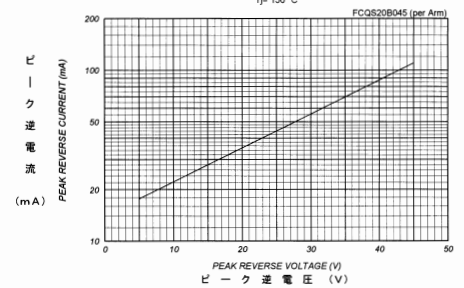


FIG.4 平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

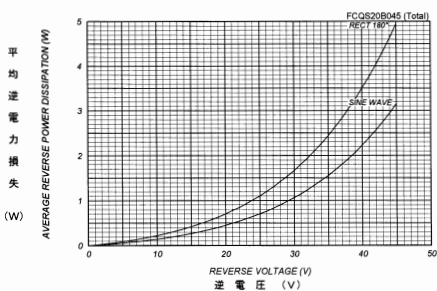


FIG.5 平均順電流 - ケース温度定格  
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

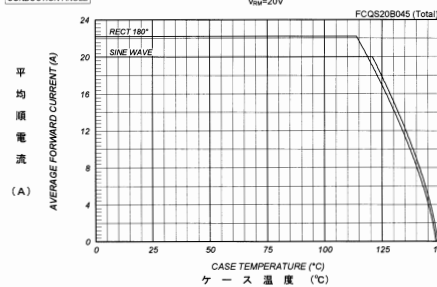


FIG.6 サージ順電流定格  
SURGE CURRENT RATINGS

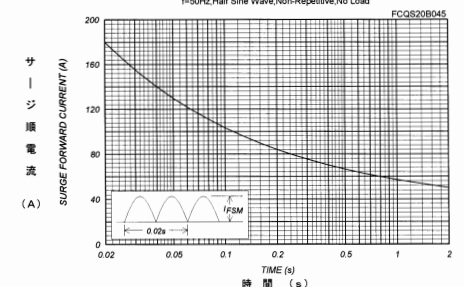


FIG.7 接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

