

1.7A Avg. 100 Volts

SBD

EA20QS10
EA20QS10-F

■最大定格 MAXIMUM RATINGS

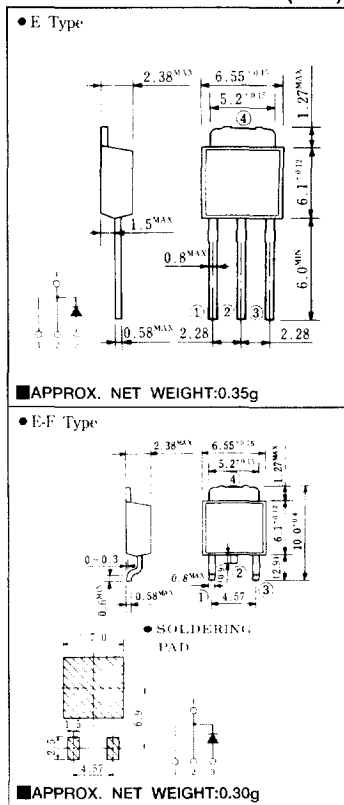
Rating	Type	EA20QS10 EA20QS10-F	Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	100	V
平均整流電流 Average Rectified Output Current	I_O	1.7 (商用周波数, 正弦波180度通電 $T_a=28^\circ\text{C}$) Half Sine Wave, Resistive Load	A
P.C.Board mounted *		1.7 (商用周波数, 正弦波180度通電 $T_c=138^\circ\text{C}$) Half Sine Wave, Resistive Load	A
実効順電流 RMS Forward Current	$I_{F(RMS)}$	2.67	A
サージ順電流 Surge Forward Current	I_{FSM}	40 (50Hz単相正弦波1サイクル非くり返し) Half 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	$^\circ\text{C}$

■電気的特性 ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$V_{RM}=V_{RRM}$ $T_j=25^\circ\text{C}$	—	—	1	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$I_{FM}=2\text{A}$ $T_j=25^\circ\text{C}$	—	—	0.85	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 (Junction to Ambient)	—	—	80	$^\circ\text{C}/\text{W}$
	$R_{th(j-c)}$	接合部・ケース間 (Junction to Case)	—	—	7	$^\circ\text{C}/\text{W}$

* Print Land = 20×20 mm

■OUTLINE DRAWING(mm)



■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

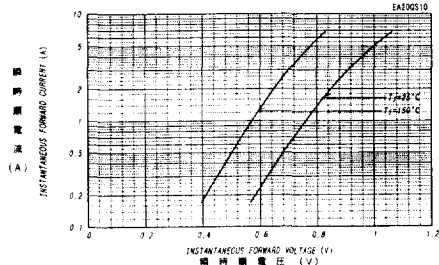


FIG.4

平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

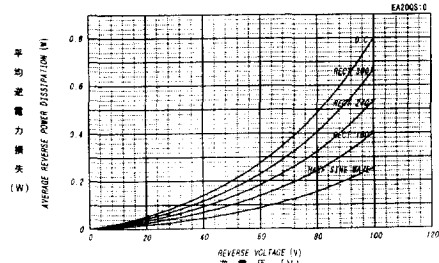


FIG.7

サージ順電流定格
SURGE CURRENT RATINGS

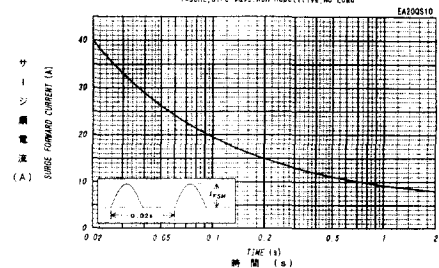


FIG.2

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

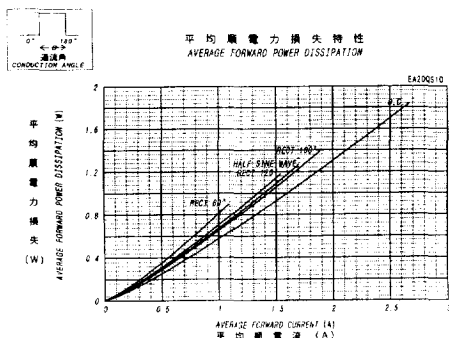


FIG.5

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

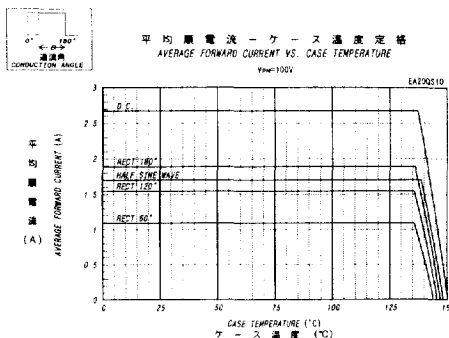


FIG.8

結合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

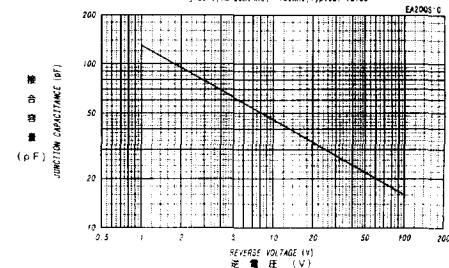


FIG.3

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

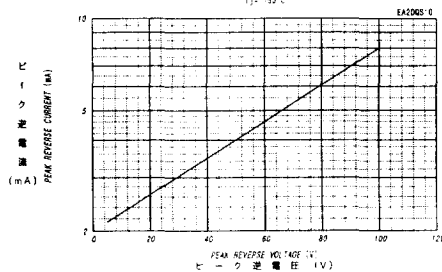


FIG.6

平均順電流-周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

