

2A Avg.

90 Volts

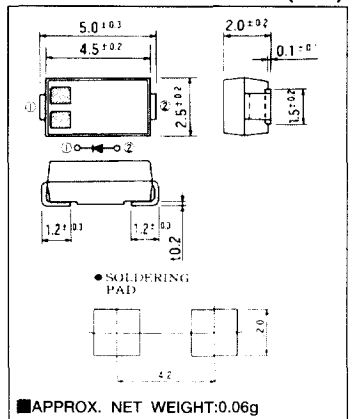
SBD

EC21QS09

■最大定格 MAXIMUM RATINGS

Rating	Symbol	Type	EC21QS09	Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$		90	V
平均整流電流 Average Rectified Output Current	$I_O$	Alumina Substrate mounted *	1.3 (商用周波数、正弦波180度通電 $T_a=29^\circ\text{C}$ ) Half Sine Wave, Resistive Load	A
		—	2.0 (商用周波数、正弦波180度通電 $T_l=107^\circ\text{C}$ ) Half Sine Wave, Resistive Load (Tl: Lead Temperature)	A
実効順電流 RMS Forward Current	$I_{F(RMS)}$		3.14	A
サージ順電流 Surge Forward Current	$I_{FSM}$		50 (50Hz準正弦半波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	$^\circ\text{C}$

■OUTLINE DRAWING(mm)



■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	接合部-周囲間 (Junction to Ambient)	$R_{th(j-a)}$	—	—	108	$^\circ\text{C/W}$
	接合部-リード間 (Junction to Lead)	$R_{th(j-l)}$	—	—	23	$^\circ\text{C/W}$

\*Soldering Lands = 2×2 mm, Both Sides

■定格・特性曲線

FIG.1

順電圧特性  
FORWARD CURRENT VS. VOLTAGE

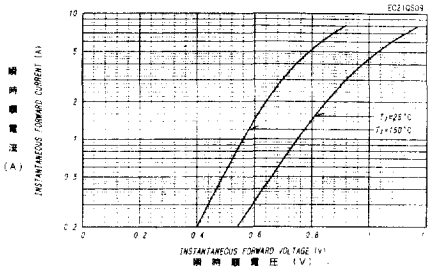


FIG.4

平均逆電力損失  
AVERAGE REVERSE POWER DISSIPATION

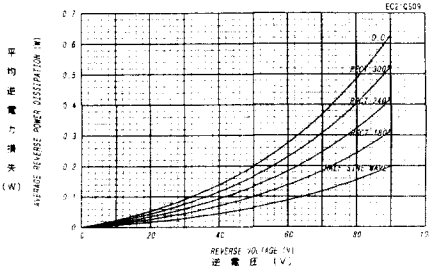


FIG.7

サージ順電流定格  
SURGE CURRENT RATINGS

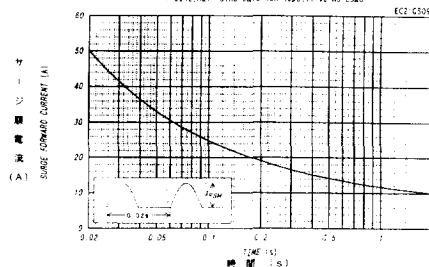


FIG.2

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

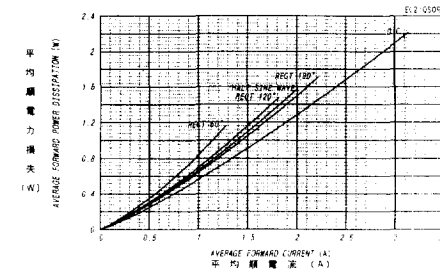


FIG.5

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

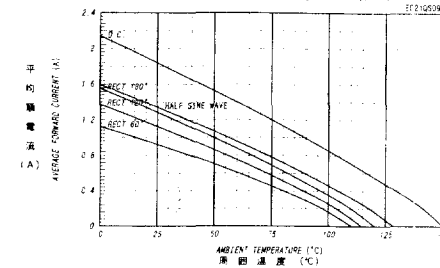


FIG.8

接合容量特性  
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

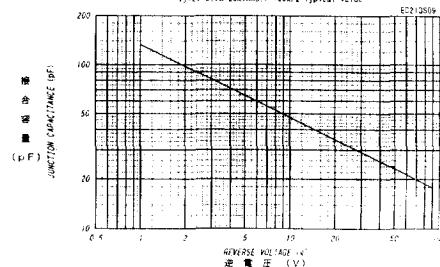


FIG.3

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

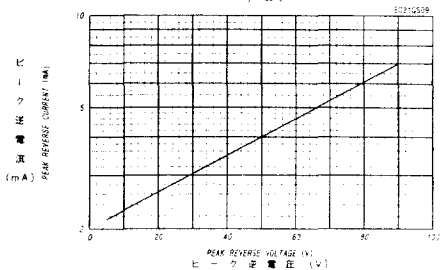


FIG.6

平均順電流-リード温度定格  
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

