

3A Avg.

100 Volts

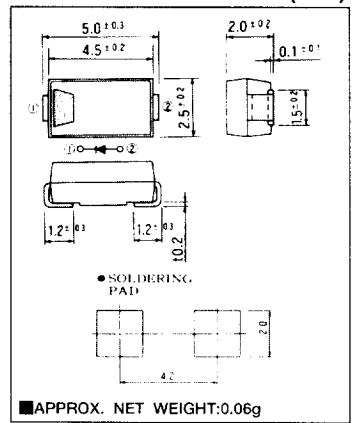
SBD

EC31QS10

■最大定格 MAXIMUM RATINGS

Rating	Symbol	Type	EC31QS10	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	Alumina Substrate mounted *	1.3 (商用周波数、正弦波180度通電 $T_a=26^\circ\text{C}$) Half Sine Wave, Resistive Load	A
			3.0 (商用周波数、正弦波180度通電 $T_l=84^\circ\text{C}$) Half Sine Wave, Resistive Load (T_l : Lead Temperature)	A
実効順電流 RMS Forward Current	$I_{F(RMS)}$		4.71	A
サージ順電流 Surge Forward Current	I_{FSM}		60 (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	$^\circ\text{C}$

■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}	$V_{RM}=V_{RRM}$ $T_j=25^\circ\text{C}$	—	—	2	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$I_{FM}=3\text{A}$ $T_j=25^\circ\text{C}$	—	—	0.85	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	Alumina Substrate mounted *	—	—	108	$^\circ\text{C/W}$
	$R_{th(j-l)}$		—	—	23	$^\circ\text{C/W}$

* Soldering Lands = 2x2 mm, Both Sides

■定格・特性曲線

FIG.1

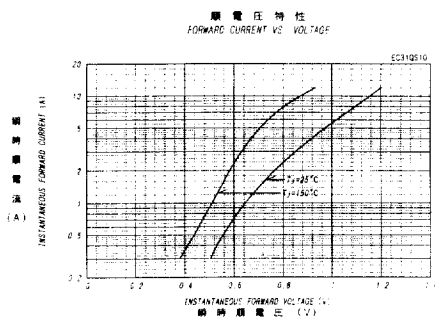


FIG.4

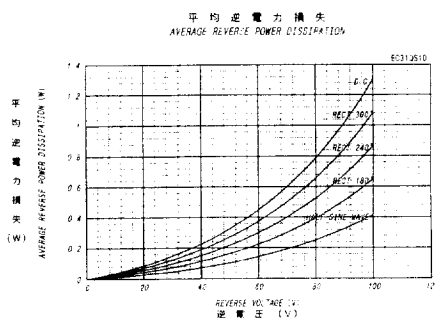


FIG.7

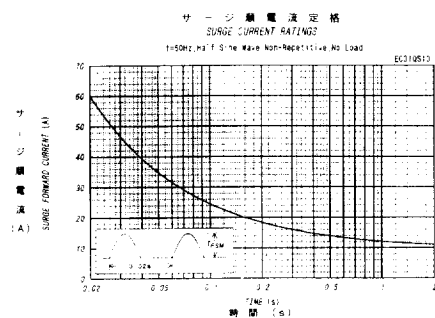


FIG.2

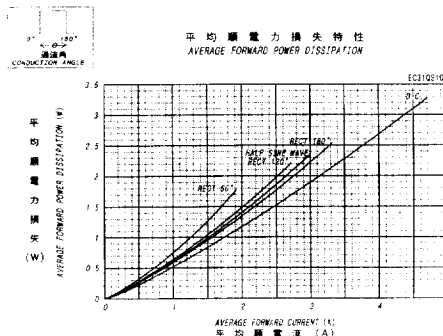


FIG.5

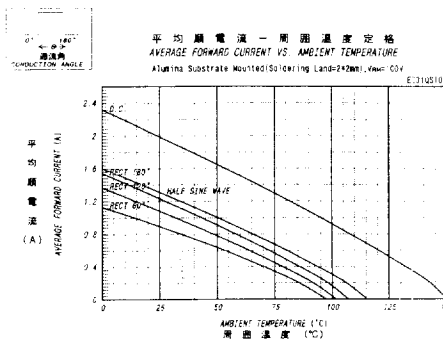


FIG.8

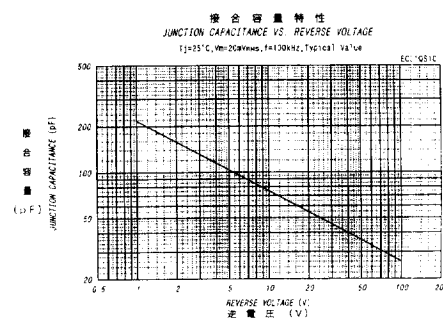


FIG.3

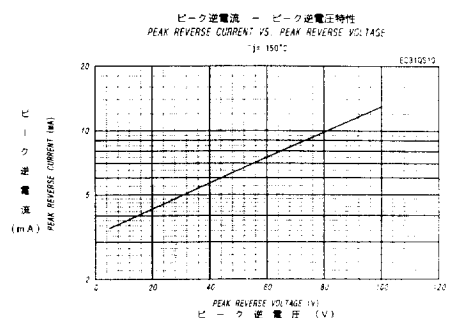


FIG.6

