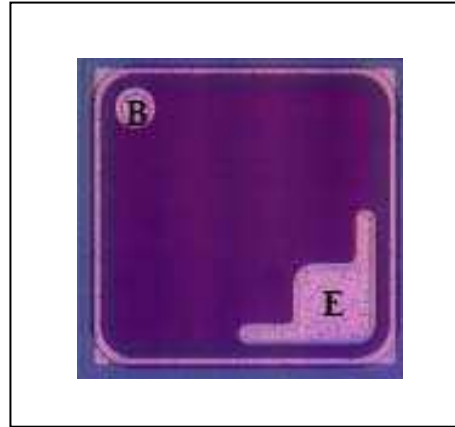


OPB0505P

Silicon Photo Transistor

1. Structure

- 1.1 Chip Size : 0.50mm X 0.50mm
- 1.2 Chip thickness : $180 \pm 20\mu\text{m}$
- 1.3 Metallization : Top - Al, Bottom - Cr-Au
- 1.4 Passivation : Silicon Nitride
- 1.5 Bonding Pad Size
 - Emitter : $120 \times 120\mu\text{m}$
 - Base : $60\mu\text{m} \times 60\mu\text{m}$



2. Electrical Characteristics

($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
C-E Breakdown Voltage	BV_{CEO}	30			V	$I_{CE}=100\mu\text{A}$
C-B Breakdown Voltage	BV_{CBO}	30			V	$I_{CE}=10\mu\text{A}$
E-B Breakdown Voltage	BV_{EBO}	5			V	$I_{CB}=10\mu\text{A}$
E-C Breakdown Voltage	BV_{ECO}	5			V	$I_{EC}=10\mu\text{A}$
Collector Cut-Off Current	I_{CEO}			100	nA	$V_{CE}=20\text{V}$
C-E Saturation Voltage	V_{CES}			300	mV	$I_C=2\text{mA}, I_B=100\mu\text{A}$
DC Current Gain	h_{FE}	200			-	$V_{CE}=5\text{V}, I_C=2\text{mA}$

3. Maximum Ratings

($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

AUK Corp.

Eoyang factory, 513-5 Eoyang-dong, Iksan, 570-210,

Tel. +82 63 839 1111 Fax. +82 63 835 8259

www.auk.co.kr

