

# DIONICS INC.

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**PK 104**  
**PK 105**  
**PK 106**

## PK104 PK105 PK106 MINI-SILICON SOLAR CELLS

The Dionics PK series of miniature solar cells are oxide passivated, highly efficient devices designed for battery recharging applications in portable electronic equipment.

Unique design eliminates exposed junctions while wire bonding interconnections obsoletes soldered shingle assembly techniques.

### FEATURES:

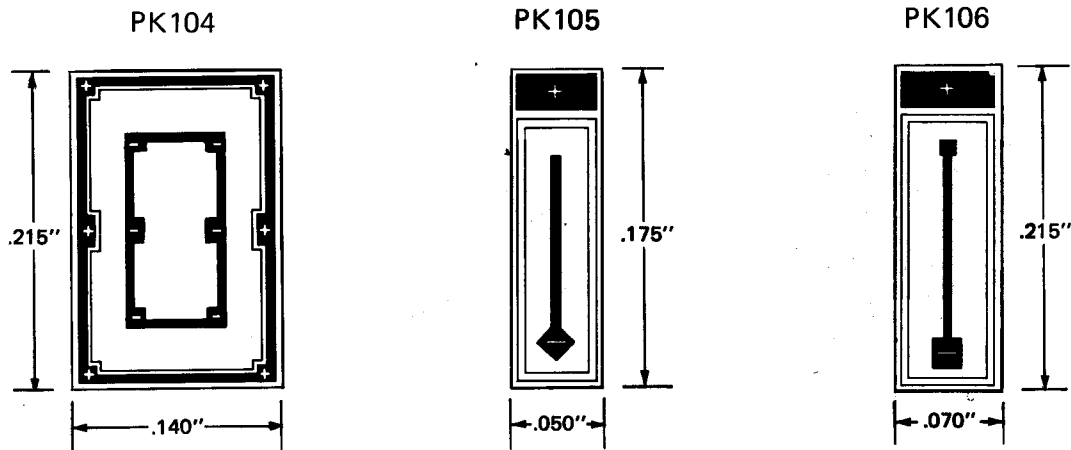
- Oxide Passivated Junctions
- Standard Aluminum Metalization – Top Contacts
- Utilizes Std. Wire Bonding Assembly Methods
- Non-Conductive Die Bonding Permits Close Spacing Between Chips
- Flexible Layout Eases Series or Parallel Inter-Connect
- Responsive To Normal Room Fluorescent Lighting Conditions

## SILICON SOLAR CELLS

### RECHARGE BATTERIES IN:

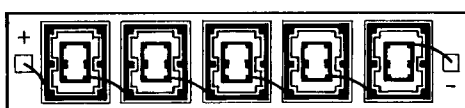
- Digital LED or LCD Watches
- Electronic Analog Watches
- Hand-Held Calculators
- Transistorized Radios
- Hearing Aids
- Miniaturized Instruments

### PHYSICAL DIMENSIONS:

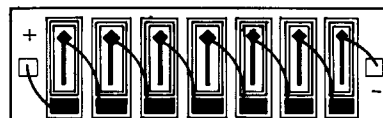


PART NO.	OUTPUT UNDER STANDARD TEST CONDITIONS				
	OUTPUT CURRENT MILLIAMPS		OUTPUT POWER mW AT 400 mV LOAD		OPEN CIRCUIT OUTPUT VOLTAGE
	MIN.	MAX.	MIN.	MAX.	
PK-104	1.80	2.50	.720	1.00	0.50 V
PK-105	0.47	0.64	.188	.256	0.50V
PK-106	0.78	1.00	.312	.400	0.50

ALL MEASUREMENTS ARE MADE UNDER A TUNGSTEN LIGHT SOURCE OF 2800° K COLOR TEMPERATURE, WITH AN INTENSITY EQUAL TO 100 mW/cm<sup>2</sup>



Typical 5 Cell Assembly  
PK-104  
Output – 2.5 Volts @ 1.8 mA



Typical 7 Cell Assembly  
PK-105  
Output – 3.5V @ 0.47 mA



Typical 10 Cell Assembly  
PK-106  
Output – 5.0 Volts @ 0.78 mA

*CUSTOM GEOMETRIES AVAILABLE UPON REQUEST*