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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *EE&G UV-215BG* at our website: *Click HERE*

UV Series

T-41-51

Features

- Planar Diffused Structure
- Oxide Passivated
- Wide Spectral Range
- Flat Noise Spectrum to DC
- Linearity Over Wide Dynamic Range
- Peak Responsivity: 0.62 A/W at 900 Nanometers
- UV Responsivity: 0.14 A/W at 254 Nanometers
- Low Noise

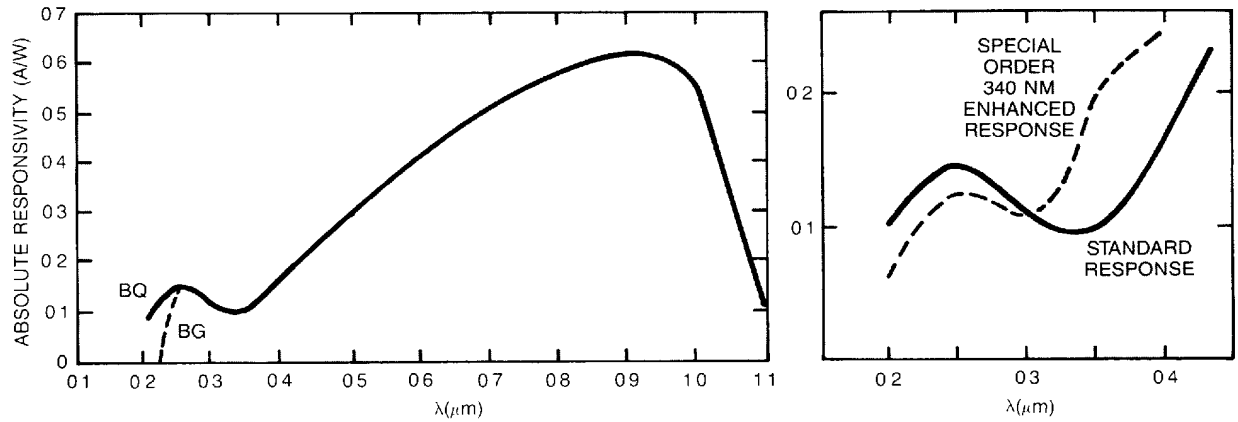
Operating Data and Specifications at 23°C: Typical Performance at 0 V Bias

Characteristic	UV-040BG UV-040BQ	UV-100BG UV-100BQ	UV-215BG UV-215BQ	UV-250BG UV-250BQ	UV-360BG UV-360BQ	UV-444BQ	Units
Active Area	0.81	5.1	23.4	21.1	36.0	100	Sq. mm
Spectral Range[1]	← 250-1150 →						nm
	← 185-1150 →						
Responsivity	0.62	0.62	0.62	0.62	0.62	0.62	A/W at 900
Responsivity	0.14	0.14	0.14	0.14	0.14	0.14	A/W at 254
Responsivity[2]	0.08	0.08	0.08	0.08	0.08	0.08	A/W at 200
Capacitance	25	150	700	630	1100	2800	Picofarads
Shunt Resistance	>500	>100	>50	>75	>20	>10	Megohms
Noise Current	6	15	20	18	28	40	10^{-15} Amps/Hz$^{1/2}$
NEP (900,10,1)	1.0	2.5	3.0	2.8	4.3	6.2	10^{-14} W/Hz$^{1/2}$
NEP (200,10,1)	7.5	18	25	23	35	50	10^{-14} W/Hz$^{1/2}$
Response Linearity	← <1% →						Over 7 decades
Surface Uniformity	← 1% →						With 0.13 mm Spot 633 nr
Temperature Coefficient of:							
Response (900 nm)	← +0.03 →						%/°C
Response (350 nm)	← −0.1 →						%/°C
Response (200 nm)	← −0.13 →						%/°C
Shunt Resistance	← −12 →						%/°C
Operating Temperature	← −55 to +125 (BG) →						°C
	← −55 to +70 (BQ) →						°C
Package Style	TO-5	TO-5	TO-8	TO-5	TO-8	TO-36	

Notes

1. Spectral range 185-1150 nm applies to units with BQ suffix, 250-1150 nm for units with BG suffix.
2. Applicable only to units with BQ suffix.

Typical Spectral Response

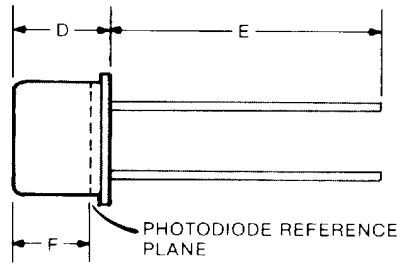


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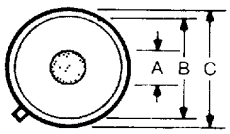
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Mechanical Data and Pin Configurations

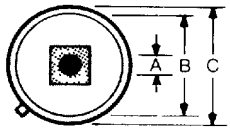
UV-040, 100, 215, 250, 360, 444



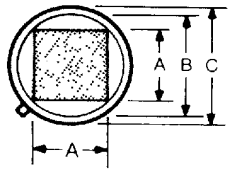
Dimension (mm)	040	100	215	250	360	444
A (Active Area)	1 0	2 5	5 5	4 6	6 0	1 1 3
B	8 3	8 3	1 2 3	8 3	1 2 6	2 7 8
C	9 0	9 0	1 3 8	9 0	1 4 6	3 1 8
D	4 2	4 2	4 6	4 2	5 7	7 1
E	>19	>19	>19	>19	>19	1 2 3
F	2 3	2 3	3 0	2 3	3 9	6 1
Pin Circle Radius	2 5	2 5	3 8	2 5	5 3	9 5
Window Thickness	1 0	1 0	1 0	1 0	1 0	1 6
Window Diameter	6 0	6 0	1 0 9	6 0	9 5	2 0 7



UV-100,444



UV-040,215

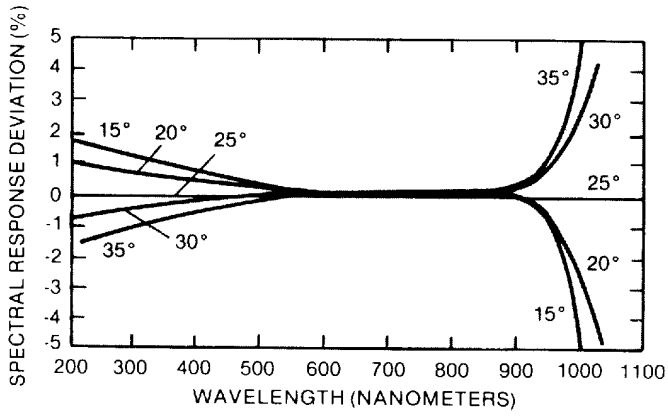


UV-250,360

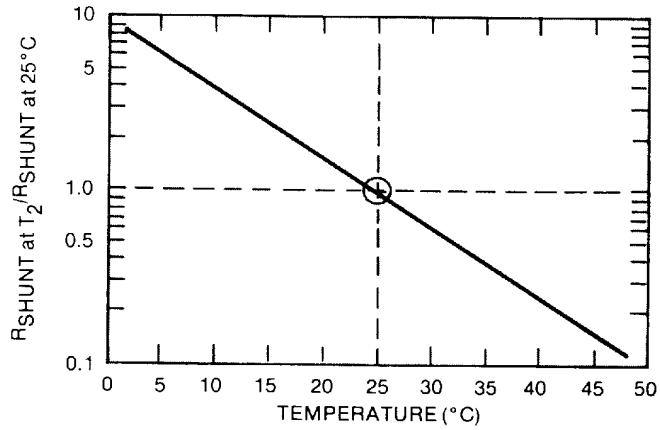
Notes

1. Only UV-100 and UV-444 packages have apertures
2. Only UV-040, UV-100, and UV-250 packages have tabs
3. UV-250 and UV-360 active areas are square

Typical deviation of responsivity with temperature



Typical shunt resistance change with temperature



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