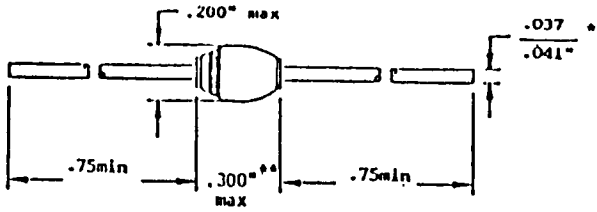


X00157<sup>u</sup>

<p><b>SPD9442</b>  <b>RADIATION DETECTOR</b>  <b>AXIAL LEADED</b>  <b>PIN DIODE</b></p>	<p><b>SSDI</b></p>
	<p>14948 FIRESTONE BLVD                  LA MIRADA, CA 90638                  (213) 921-9660                  FAX (714) 522-7242</p>

**CASE STYLE**



\* .028/.032 special order available.  
 \*\* .175" max special order available.

**FEATURES**

- ▶ HIGH PHOTOCURRENT SENSITIVITY
- ▶ LINEAR OUTPUT > 4 DECADES
- ▶ FAST RISE TIME: < 20 nsec
- ▶ ALL ALLOY CONSTRUCTION
- ▶ AVAILABLE IN SURFACEMOUNT

HIGHER PERFORMANCE THAN UNITRODE'S UM9442

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Reverse Voltage	VR	100	V
Photocurrent	IP	5	A
Storage and Operating Temperature	Tstg, TJ	-65 to +200	°C

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS @ 25 °C	SYMBOL	MIN	MAX	UNIT
Photocurrent, Bias=15V min 1X10 <sup>6</sup> (RAD(Si)/Sec) Gamma Radiation	IP	5	---	nQ/(RAD(Si)) mAdc
Capacitance (VR=50V, f=1MHz)	CJ	---	11	pF
Reverse Leakage Current (VR = 50Vdc)	IR		500	nAdc
Breakdown Voltage (IR = 100µAdc)	BVR	100		Vdc