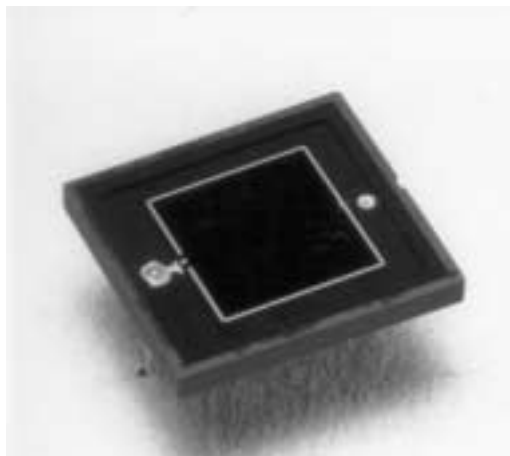
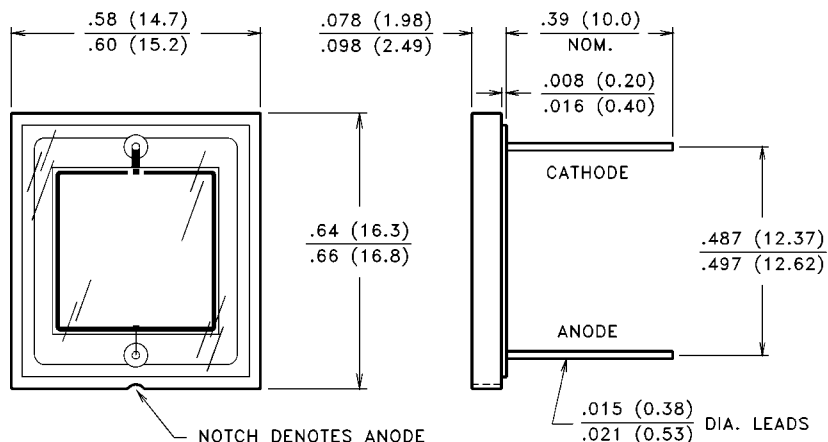




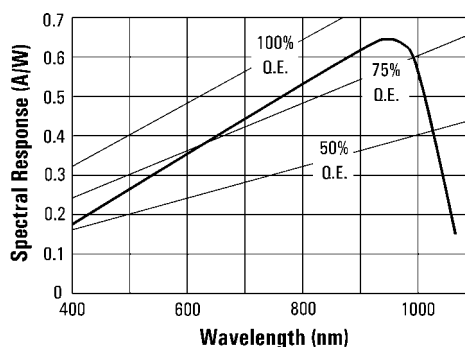
PACKAGE DIMENSIONS inch (mm)



PRODUCT DESCRIPTION

This PIN photodiode consists of a chip with a 9.2 x 9.2 mm active area mounted in a black ceramic package with an epoxy window. These devices are ideal for applications requiring a fast, large area, high detectivity device.

CASE 53 BLACK CERAMIC
 CHIP ACTIVE AREA: .131 in² (84.64 mm²)
 SPECTRAL RESPONSE



ABSOLUTE MAXIMUM RATINGS

Maximum Current: 2 mA
 Max. Power Dissipation: 100 mW
 Max. Reverse Voltage: 50 Volts, Peak
 Storage & Operating Temp.: -40°C to 100°C

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTH2090			UNITS
			Min.	Typ.	Max.	
S _R	Radiant Sensitivity	480 nm		0.25		A/W
		540 nm		0.30		
		633 nm		0.40		
		940 nm		0.60		
I _{SC}	Short Circuit Current	100 Lux	65	80		μA
I _D	Dark Current	H = 0, V _R = 30 V			10	nA
TC I _D	ID Temperature Coefficient			15		%/°C
C _J	Junction Capacitance	H = 0, V _R = 30 V		70		pF
t _R /t _F	Rise/Fall Time	(10% to 90%)		15		nsec
λ _{range}	Spectral Application Range		400		1100	nm
λ _p	Spectral Response - Peak			960		nm
NEP	Noise Equivalent Power		4 x 10 ⁻¹⁴ (Typ.)			W/√Hz
D*	Specific Detectivity		4 x 10 ¹³ (Typ.)			cm√Hz / W