

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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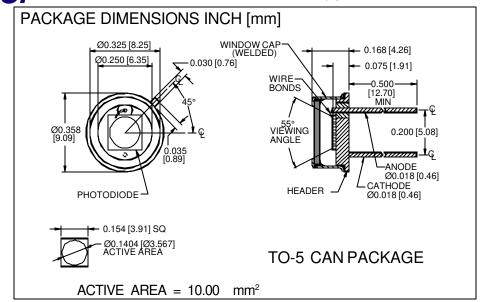






PHOTONIC Silicon Photodiode, U.V. Enhanced Photoconductive **DETECTORS INC.** Type PDU-C106-Q





FEATURES

- High speed
- U.V. enhanced
- Low capcitance
- Quartz window

DESCRIPTION

The PDU-C106-Q is a silicon, PIN planar diffused, U.V. enhanced photodiode. Ideal for high speed photoconductive applications. Packaged in a TO-5 metal can with a flat quartz window.

APPLICATIONS

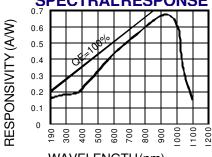
- Spectrometers
- Fluorescent analysers
- U.V. meters
- Colorimeter

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
VBR	Reverse Voltage		30	V
T _{STG}	Storage Temperature	-55	+150	∞
То	Operating Temperature Range	-40	+125	∞
Ts	Soldering Temperature*		+240	∞
IL	Light Current		500	mA

^{*1/16} inch from case for 3 secs max

SPECTRAL RESPONSE



WAVELENGTH(nm)

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	100	130		μA
ΙD	Dark Current	$H = 0, V_R = 5 V$		2	10	nA
RsH	Shunt Resistance	$H = 0, V_R = 10 \text{ mV}$	100	325		МΩ
TC Rsh	RSH Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-8		%/°C
Сл	Junction Capacitance	$H = 0, V_R = 5 V^{**}$		150		рF
λrange	Spectral Application Range	Spot Scan	190		1100	nm
R	Responsivity	$V_{R} = 0 \text{ V}, \ \lambda = 254 \text{ nm}$.12	.18		A/W
V _{BR}	Breakdown Voltage	I = 10 μμΑ	15	25		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		2.5x10 ⁻¹⁴		W/√ _{Hz}
tr	Response Time	$RL = 1 K\Omega V_R = 5 V$		60		nS

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. **f=1 MHz [FORM NO. 100-PDU-C106-Q REV A]