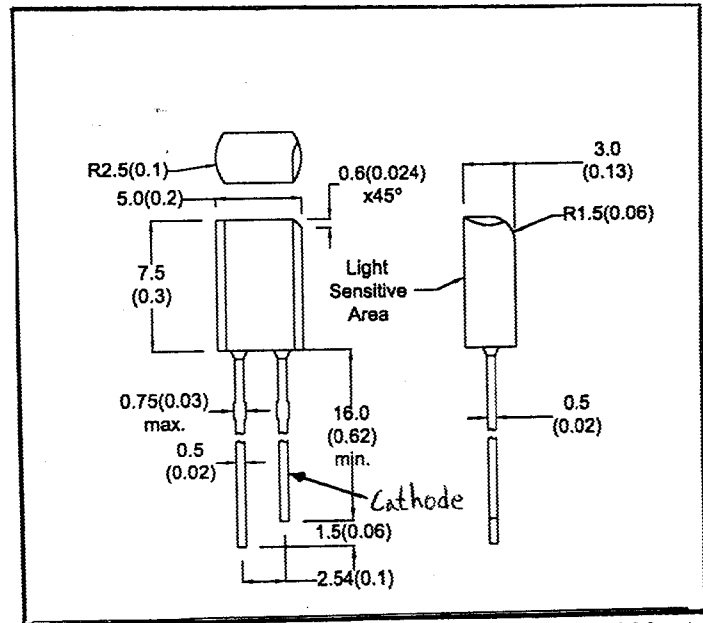


# MICRO ELECTRONICS

PIN  
PHOTO  
DIODE

## DESCRIPTION

ML303B is a side on type PIN photodiode with inherent visible light rejective filter epoxy encapsulation. It features high sensitivity and small junction capacitance make it possible to operate at high frequency application. This device is most suitable for remote controls of TVs, audio sets, air-conditioners, cine projectors and so on.



## ABSOLUTE MAXIMUM RATINGS

Forward Current	100mA
Reverse Voltage	32V
Power Dissipation @ Ta=25°C	150mW
Operating & Storage Temperature Range	-20 to +90°C
Storage Temperature	-30 to +100°C

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	CONDITIONS
Dark Current	ID		5	30	nA	VR=10V H=0mW/cm <sup>2</sup>
Sensitivity	S		50		nA/lx	VR=5V H=5mW/cm <sup>2</sup> Ct=2870°K
Capacitance	Ct		25		pF	VR=3V H=0mW/cm <sup>2</sup> f=1MHz
Open Circuit Voltage	Voc		350		mV	H=5mW/cm <sup>2</sup> Ct=2870°K
Short Circuit Current	Isc		75		μA	H=5mW/cm <sup>2</sup> Ct=2870°K
Turn-On Time	Ton		50		nS	VR=10V RL=1KΩ
Turn-Off Time	Toff		50		nS	VR=10V RL=1KΩ
Peak Wavelength	λp		880		nm	VR=5V



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Rev A

# ML303B TYPICAL CHARACTERISTICS

RELATIVE ANGULAR RESPONSE  
( $T_a = 25^\circ\text{C}$ )

