



YETDA INDUSTRY LTD.

## 5mm Phototransistor LED P500M5D

5mm with Phototransistor Dice ◦

Encapsulated with water color Package ◦

The epoxy package itself is an IR filter, spectrally matched to GaAs IR emitters with  $\lambda_p \geq 700\text{nm}$  ◦

Long Leads ◦

### Absolute Maximum Ratings:

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	-20°C to +75°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

### Electro-Optical Characteristics (Ta = 25°C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Dark current	VR=10V Ee=0mW/c m <sup>2</sup>	ICEO			100	nA
C-E Saturation Voltage	IC=0.5Ma Ee=10mW/c m <sup>2</sup>	VCE(Sat)			0.8	V
Light Current	VCE=5V Ee=1mW/c m <sup>2</sup>	Ic(on)	200		1400	uA
Rise Time(10%to90%)	Vce=5V Ic=1mA			10		uS
Fail Time(90%to10%)	RL=100ohms			10		
Wavelength of Peak Sensitivity		$\lambda_p$		940		nm
Range of Spectral Bandwidth		$\lambda$ 0.5	840-1200			nm
Collector-Emitter Down Voltage		VCEO		30		V
Emitter-Collector Down Voltage		VCEO		5		
Collector Current		IC		20		mA
C-Power dissipation		PC		100		mW

### Package

Item: 500

