

# Package Dimension Package Dimension 1.5MAX 1.5MAX 1.5MIN 1.6MIN 1.6MIN 1.6MIN 1.6MITTER 2.COLLECTOR

Note:1.All dimension are in millimeter tolerance is  $\pm 0.25$ mm unless otherwise noted 2.Specifications are subject to change without notice

## **SERIES**

### **Features**

- . High illumination sensitivity
- . Stable characteristics
- Spectrally and mechanically matched with IR emitter

### Description

The LPT3313 series are silicon nitride passivated NPN planar phototransistors with exceptionally stable characteristics and high illumination sensitivity the cases of LPT3313 are encapsulated in water clear plastic T1 3/4 package individuallt

### MAXIMUM RATINGS(Ta=25<sup>o</sup>C)

PARAMETER	MAXIMUM RATINGS	UNIT			
Power Dissipation	100	mw			
Collector-Emitter Voltage	30	V			
Emitter-Collector Voltage	5	V			
Operating Temperature	-50°C TO +100°C				
Storage Temperature	-50°C TO +100°C				
Lead Soldering Temperature(1.6mm From Body)	260°C for 5 seconds				

# • ELECTRICAL CHARACTERISTICS(Ta=25 $^{\circ}$ C)

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PARAMETER	SYMBOL	Min.	Тур.	Max.	UNIT	TEST CONDITION
Collector-Emitter Breakdown Voltage	V(BR)CEO	30			V	Ic=1mA Ee=0mw/cm²
Emitter-Collector Breakdown Voltage	V(BR)ECO	5			V	IE=100 μ A Ee=0mw/cm²
Collector-Emitter Saturation Voltage	VCE(sat)			0.4	V	Ic=0.5mA Ee=20mw/cm²
Rise Time	Tr		5		$\mu$ s	VCE=30V IC=800 $\mu$ A, RL=1K $\Omega$
Fall Time	Tf		5		$\mu$ s	
Collector Dark Current	ICEO			100	nA	VCE=10V Ee=0mw/cm²
On State Collector Current	lp(on)	1		2	mA	
		2		4	mA	VCE=5v Ee=1mw/cm <sup>*</sup> λ P=940nm
		4		8	mA	
		8			mA	

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