Phototransistor

OPT6794

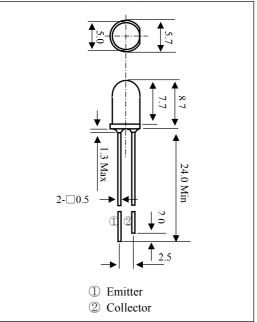
The OPT6794 is a high-sensitivity NPN silicon phototransistor mounted in a clear plastic package. With lensed package this small phototransistor is designed to optimize the mechanical resolution coupling efficiency, cost and reliability.

FEATURES

- Lensed for high sensitivity
- High reliability and stable characteristics
- Low-cost

APPLICATIONS

- Optical counters
- Optical detectors
- Camera stroboscopes



DIMENSIONS(Unit:mm)

(Ta=25℃)

* Please take proper steps in order to secure reliability and safety in required conditions and environments for this device.

MAXIMUM RATINGS

Item	Symbol	Rating	Unit				
C-E Voltage.	V _{CEO}	35	V				
E-C Voltage.	$I_{\rm F}$	6	V				
Collector current.	Ic	20	mA				
Collector Power dissipation.	Pc	50	mW				
Operating temp.	Topr.	-25~+85	°C				
Storage temp.	Tstg.	-30~+100	°C				
Soldering temp. *1	Tsol.	260°C within 5 seconds					

*1.Lead Soldering Temperature (2mm from case for 5sec.).

FLECTRO-OPTICAL CHARACTERISTICS

ELECTRO-OPTICAL CHARACTERISTICS (T						[a=25℃)	
Item		Symbol	Conditions	Min.	Тур.	Max.	Unit
Collector dark of	current.	I _{CEO}	V _{CEO} =10V, Ev=0	-	1	100	nA
Light current.	*2	I _{CEL}	$V_{CE}=3V, Ev=1000_{LUX}$	0.5	4.0	-	mA
C-E Saturation	Voltage	V _{CE(SAT)}	Ic=0.2mA,2000 _{LUX}	-	0.2	0.4	V
Switching speeds	Rise time	tr		-	2.5	-	µsec.
	Fall time	tf		-	3.8	-	µsec.
Spectral Sensiti	vity	λ		450~1050		nm	
Peak Sensitivity	y wavelength	λ_P			880		nm
Half angle		$\Delta \Theta$	205C [°] V		±17		deg.

^{*2} Tungsten lamp of a color temperature of T=2856° K