PHOTOTRANSISTOR

Part Number: AM4457P3C

Features

- Mechanically and spectrally matched to infrared emitting LED lamp.
- RoHS compliant.

Description Made with NPN silicon phototransistor chips.

Package Dimensions



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Symbol	Parameter	Min.	Тур.	Max.	Units	Test Conditions
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	Ic=100uA Ee=0mW/cm ²
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			v	IE=100uA Ee=0mW/cm ²
VCE (SAT)	Collector-to-Emitter Saturation Voltage			0.8	v	Ic=2mA Ee=20mW/cm ²
I CEO	Collector Dark Current			100	nA	Vce=10V Ee=0mW/cm ²
Tr	Rise Time (10% to 90%)		15		us	Vcε = 5V lc=1mA RL=1000Ω
TF	Fall Time (90% to 10%)		15		us	
l (on)	On State Collector Current	0.35	0.8		mA	VCE = 5V Ee=1mW/cm ² λ =940nm
λ0.1	Range of spectral bandwidth	420		1120	nm	
λр	Wavelength of peak sensitivity		940		nm	
201/2	Angle of half sensitivity		70		deg	

Absolute Maximum Ratings at TA=25°C

Parameter	Max.Ratings		
Collector-to-Emitter Voltage	30V		
Emitter-to-Collector Voltage	5V		
Power Dissipation at (or below) 25°C Free Air Temperature	100mW		
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		
Lead Soldering Temperature (>5mm for 5sec)	260°C		

Note:

 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.





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