

Model No. PTC080M3B

Photo Transistor

RoHS Compliant

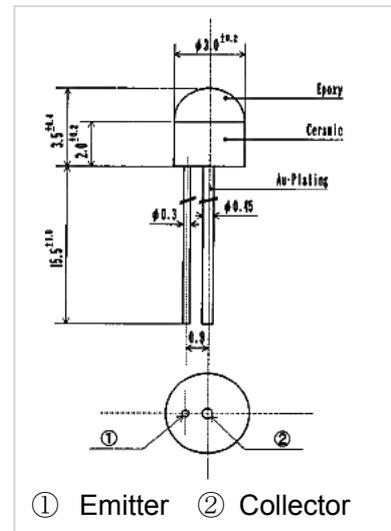
◆ **FEATURES**

- High Reliability
- Compact

◆ **APPLICATIONS**

- Optical Switch
- Optical Sensor
- Optical Detector

◆ **Absolute Maximum Ratings**



Ta = 25°C

Parameter	Symbol	Value	Unit
Collector-Emitter Voltage	Vceo	20	V
Emitter-Collector Voltage	Veco	5	V
Collector Current	Ic	30	mA
Collector Power Dissipation	Pc	80	mW
Operating Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature *1	Tls	260	°C

*1 : within 5sec / up to 3.0mm from the body

◆ **Electro-optical Characteristics**

Ta = 25°C

Parameter	Symbol	MIN	TYP	MAX	Unit	Conditions
Collector Emitter Current	Icel	--	1.0	--	mA	Vce=10V, Ee=0.5mW/cm ² *
Color Dark Current	Iceo	--	--	100	nA	Vce= 10V, Ee=0mW/cm ² *
C-E Saturation Voltage	VCE(sat)	--	0.2	--	V	Ic=0.2mA, Ee=5mW/cm ² *
Spectral Sensitivity	λ	400~1100			nm	
Peak Sensitivity Wave Length	λ _p	--	880	--	nm	
Switching Time (Rise Time)	Tr	--	10.0	--	μS	RL=100Ω, Vce=5V, Ic=0.5mA
Switching Time (Fall Time)	Tf	--	10.0	--	μS	RL=100Ω, Vce=5V, Ic=0.5mA
Angular Response	θ	--	±80	--	deg.	

※ Color Temperature=2870° K Standard Tungsten Lump

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