PT600T

Ultra-compact Chip Part Type Phototransistor

■ Features

1. Ultra-compact type (1.6 x 1.6 x 0.8 mm)

2. Thin type (thickness: 0.8 mm)

3. Surface mounting type (leadless)

4. Taped model (4000 pcs/reel)

■ Applications

1. For liquid crystal backlight LED ON-OFF control

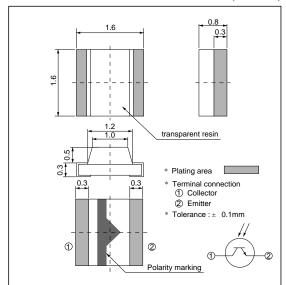
2. Pagers

3. Cellular phones

4. Other portable equipment

■ Outline Dimensions

(Unit: mm)



■ Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Parameter	Symbol	Rating	Unit
Collector-emitter voltage	V _{CEO}	35	V
Emitter-collector voltage	V _{ECO}	6	V
Collector current	$I_{\rm C}$	20	mA
Collector Power dissipation	Pc	50	mW
Operating temperature	T opr	- 25 to +85	°C
Storage temperature	T stg	- 25 to +100	°C
*1Soldering temperature	T sol	260	°C

^{*1} Hand soldering temperature, for MAX. 3 seconds

■ Electro-optical Characteristics

 $(Ta = 25^{\circ}C)$

Parame	eter	Symbol	Conditions *2	MIN.	TYP.	MAX.	Unit
Collector current		I_{C}	$E_e = 5 \text{mW/cm}^2$, $V_{CE} = 5 \text{V}$	0.7	3.5	9.6	mA
Dark current		I_{CEO}	$E_e = 0$, $V_{CE} = 20V$	-	-	0.1	μΑ
Collector-emitter saturation	n voltage	V _{CE(sat)}	$E_e = 10 \text{mW/cm}^2$, $I_C = 0.5 \text{mA}$	-	0.2	0.4	V
Peak sensitivity waveleng	th	λp	-	-	880	-	nm
Response time	Rise	tr	$V_{CE} = 20V, I_{C} = 1mA$		10	-	μs
	Fall	t_{f}	$R_L = 1k\Omega$	-			
Half intensity angle		Δθ	-	-	± 60	-	۰

^{*2} E_e: Irradiance by CIE standard light source A (tungsten lamp)

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