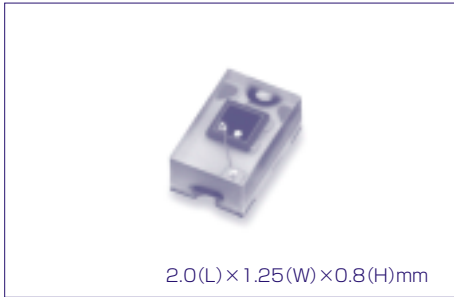


CPT-176 シリーズ / CPT-176 Series



■ 用途 / Application

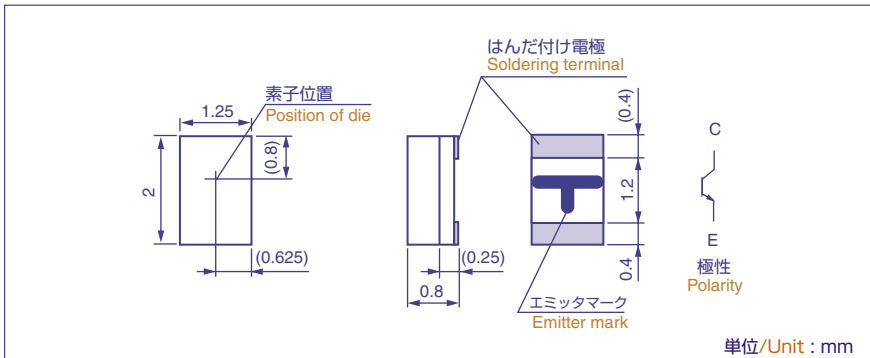
1. 照度センサー。
 2. 携帯電話の周囲光検出。
1. Ambient light sensor.
 2. Detection of ambient light for mobile telephones.

● 電気的光学的特性 / Electro-optical characteristics (Ta 25°C)

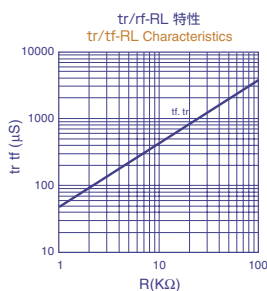
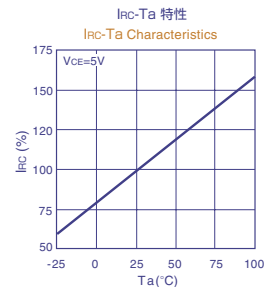
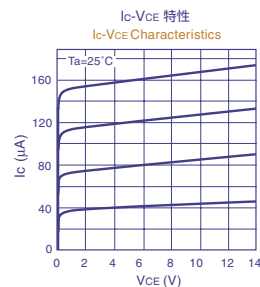
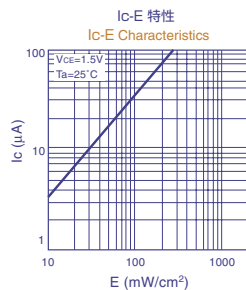
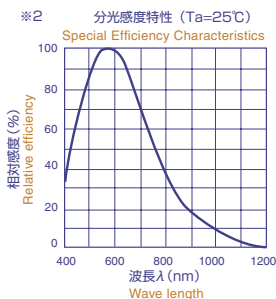
Item	Symbol	Conditions	Min	Typ	Max	Unit
光電流 / Light current	I_C	$V_{CE}=1.5V$ *1 $E_V=100lx$	20	35	50	μA
暗電流 / Collector dark current	I_{CEO}	$V_{CE}=5V$	-	5	100	nA
コレクタ・エミッタ間飽和電圧 Saturated voltage between collector & emitter	$V_{CE(sat)}$	$I_C=100\mu A$ *1 $E_V=100lx$	-	0.1	0.4	V
ピーク感度波長 / Peak sensitive wave length	λ_p	-	-	580	-	nm
応答時間 / Response Time	立上がり / Rise time	$V_{CE}=5V$ $I_C=1mA$ $R_L=1000\Omega$	-	50	-	μSEC
	立下がり / Fall time		-	50	-	μSEC
半値角 / Spectral width of half value	$\theta_{1/2}$	-	-	± 70	-	deg.

*1 E_V =CIE標準A光源 / *1 E_V =Illuminance by CIE standard light source A.

● 外形寸法図 / Outline drawing



■ 諸特性 / Characteristics



応答速度測定回路
Measuring circuit for response time

