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PT370/PT371/PT372

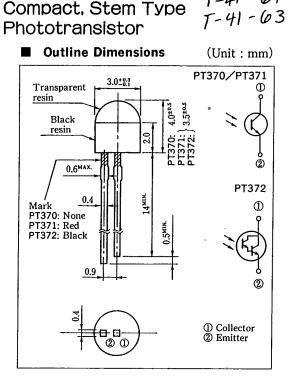
Features

- 1. ϕ 3mm compact, resin stem type
- 2. Acceptance PT370 $\triangle \theta$: TYP. ±45° PT371 $\triangle \theta$: TYP. ±65°
- PT372 △ θ : TYP. ±70°
 3. Single phototransistor output: PT370/ PT371

Darlington phototransistor output: PT372

Applications

- 1. Floppy disk drives
- 2. VCRs,
- 3. Automatic stroboscopes
- 4. Optoelectronic switches, optoelectronic counters



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🖬 - Absolute Max	(Ta=25°C)				
Parameter		Symbol	Rating	Unit	
Collector-emitter voltage		Vceo	35	v	
Emitter-collector voltage		VECO	6	v	
Callester surrent	PT370/PT371	т	20		
Collector current	PT372	Ι _c	50	mA	
Collector power dissipation		Pc	75	mW	
Operating temperature		Topr	-25~+85	'C	
Storage temperature		T _{stg}	-25~+85	·C	
* ¹ Soldering temperature		T _{sol}	260	.С	

*1 For 3 seconds at the position of 1.5mm from the bottom face of resin package

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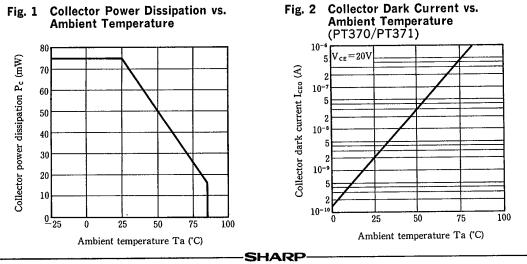
RP ELEK/ MELEC	C DIV	15E D	8180798 000 T-41-61	2759	Б г 137(0/PT37:	1/PT372
Electro-optical Cha	racteristics		T-41-63			(Ta	1=25°C)
Parameter Sym		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
	PT370		*3	100	300	900	μA
*2Collector current	PT371	Ic	$E_{v} = 100\ell_{x}, V_{ce} = 5V$	100	—	900	
••••••	PT372	1	(PT372: V _{ce} =2V)	3.0		23	mA
Collector dark	PT370/PT371		$E_e = 0, V_{CE} = 20V$	_	2.0	100	nA
current	PT372	I _{ceo}	$E_e = 0, V_{CE} = 10V$		—	1.0	μA
Collector-emitter	PT370/PT371	V _{CE(sat)}	$*{}^{3}E_{e} = 10 \text{mW}/\text{cm}^{2}$, $I_{c} = 0.5 \text{mA}$		0.2	0.4	v
saturation voltage	PT372		$*_{E_e} = 1 \text{mW/cm}^2$, $I_c = 2.5 \text{mA}$	-	0.8	1.0	
Peak sensitivity wave	ength	λρ	_	1	800		nm
	PT370/PT371		$V_{cc}=20V, I_c=1mA, R_L=1k\Omega$	—	10	40	μs
Response time (Rise)	PT372	- t _r	$V_{CE} = 2V, I_{C} = 10mA, R_{L} = 100\Omega$	—	100	400	μs
	PT370/PT371		$V_{cc}=20V, I_c=1mA, R_L=1k\Omega$	—	8	35	μs
Response time (Fall)	PT372	- tr	$V_{cE} = 2V, I_c = 10mA, R_L = 100\Omega$	_	100	400	μs
	PT370			—	±45		deg.
Half intensity angle	PT371	Δθ			±65		
	PT372			—	±70	-	

*2 The collector current (Ic) shall be classified into the ranks as follows before delivery.

Rank	Collector current I _c				
	ΡΤ370 (μΑ)	ΡΤ371 (μΑ)	PT372 (mA)		
A	100~216	100~244	3.0~9.66		
В	170~320	192~463	7.14~23.0		
С	252~533	363~900			
D	419~900	_			

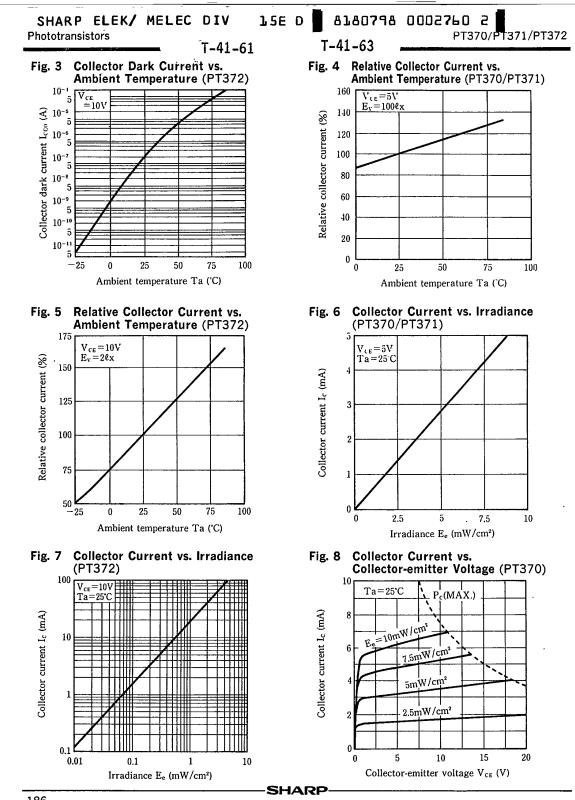
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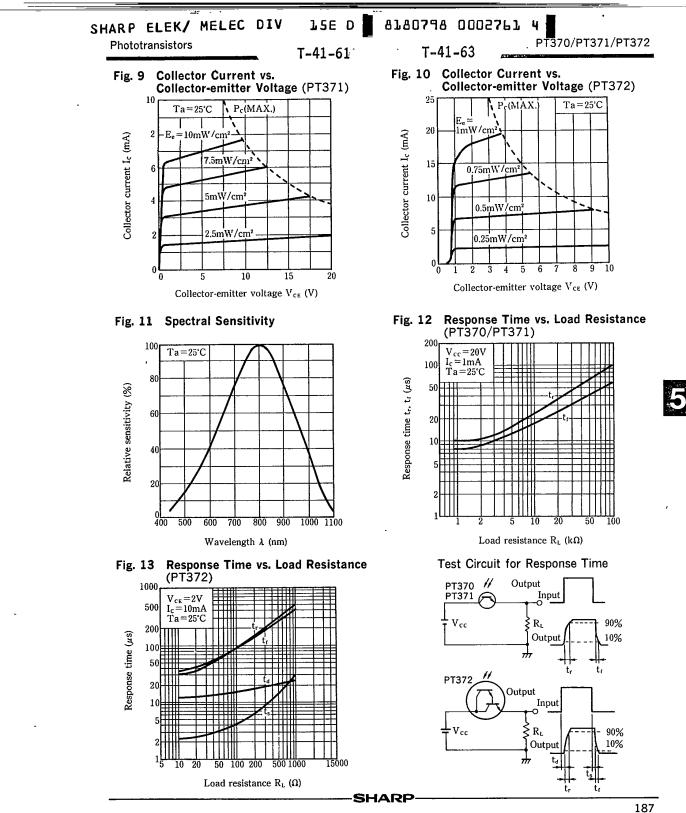
*3 Ev, Ee: Illuminance, irradiance by CIE standard light source A (tungsten lamp)



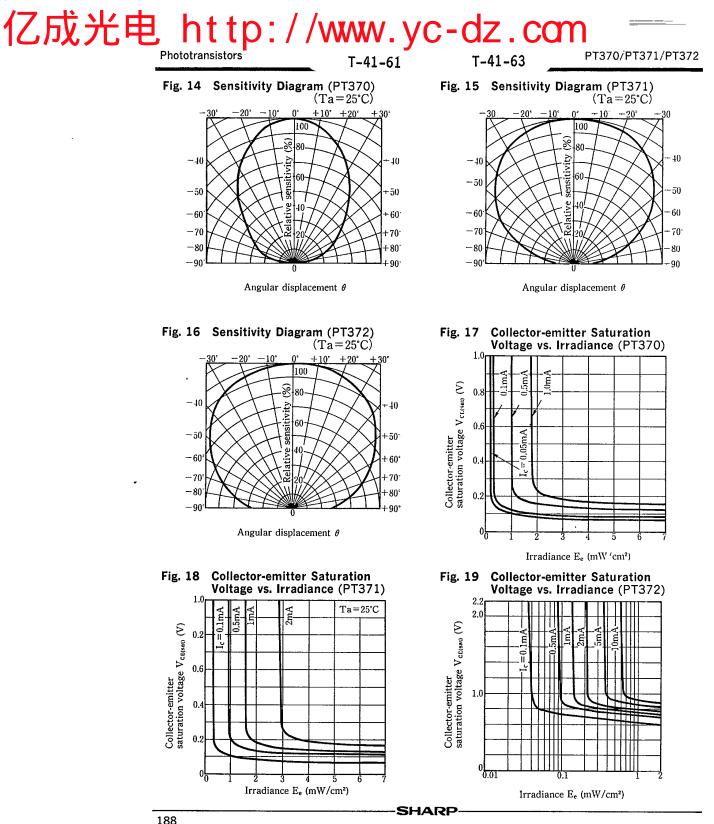
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