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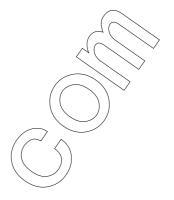
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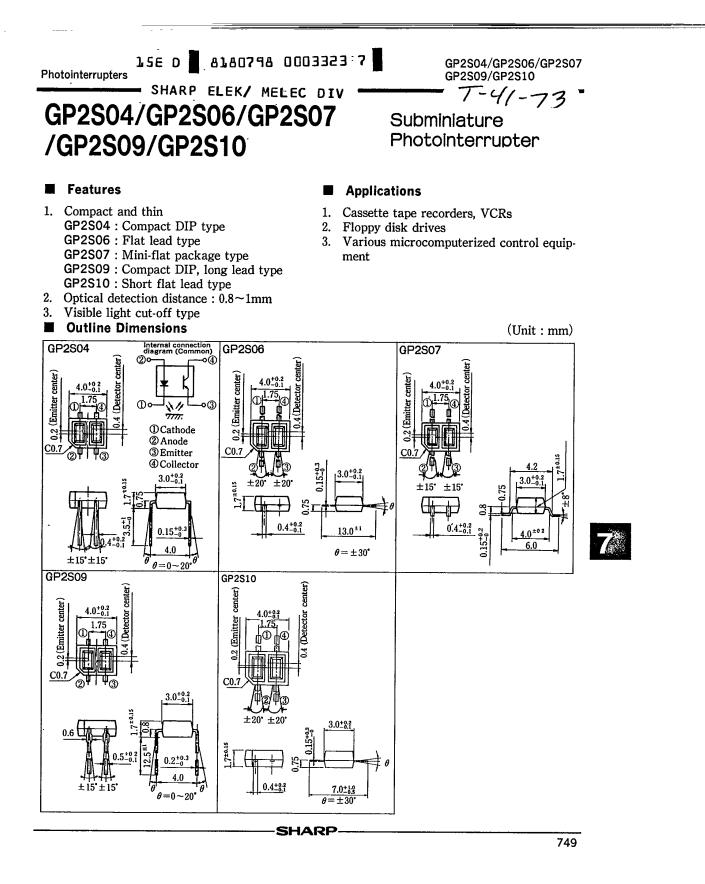
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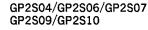


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Photointerrupters

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SHARP ELEK/ MELEC DIV

Absolute Maximum Ratings $(Ta=25^{\circ}C)$ Parameter Symbol Rating Unit 50 Forward current mA If v VR 6 Reverse voltage Input mW 75 Power dissipation PD V_{ceo} V 35 Collector-emitter voltage VECO v Emitter-collector voltage 6 Output 20 mΑ Collector current I_{c} Collector power dissipation P_{c} 75 mW Total power dissipation Ptot 100 mW Topr -25~+85 °C Operating temperature T_{stg} 40~+100 ۰C Storage temperature *1Soldering temperature T_{sol} 260 °C

*1 Within 5 seconds (Soldering areas for each model are shown below.)

GP2S04, GP2S09

Soldering area The hatched area more than 1mm*2 away from the lower edge of package as shown in the figure below.

GP2S06 Soldering area The hatched area more than 2.0mm away from the both edges of package as shown

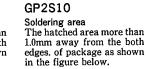
in the figure below.

2.0mm

GP2S07

0.5mm

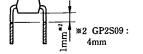
Soldering area The hatched area more than 0.5mm away from the both edges of package as shown in the figure below.



1.0mm

1.0mm

(Ta=25°C)



Electro-optical Characteristics

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
	Forward voltage	VF	I _F =20mA		1.2	1.4	V
Input	Reverse current	IR	V _R =6V		—	10	μA
Output	Collector dark current	I _{CEO}	$V_{ce} = 20V$		1×10-9	1×10-7	Α
Transfer charac- teristics	* ³ Collector current	Ic	$I_F = 4mA, V_{CE} = 2V$	20	45	120	μA
	Response time (Rise)	tr	$V_{ce} = 2V, I_c = 100 \mu A$	_	20	100	μs
	Response time (Fall)	tr	$R_L = 1k\Omega$, d=1mm		20	100	μs
	*4Leak current	ILEAK	$I_F = 4mA$, $V_{CE} = 2V$	-		0.1	μA

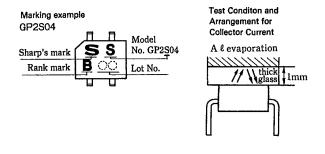
The condition and arrangement of the reflective object are shown in the right drawing. *3

2.0mm

Without reflective object *4

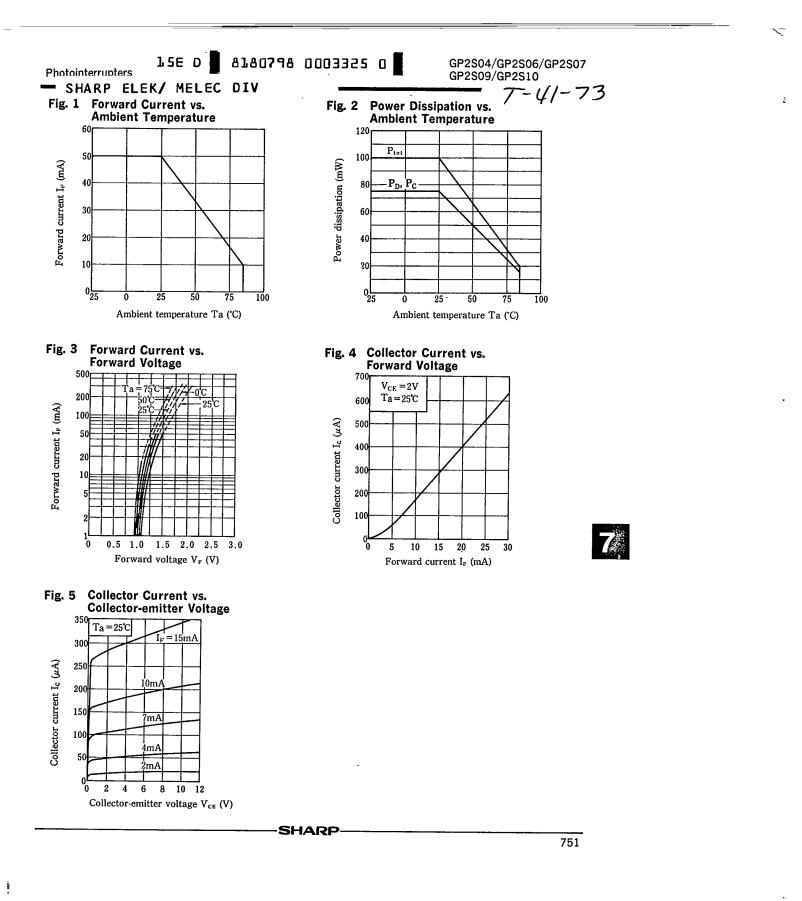
The ranking of collector current shall be classified into the following 6 ranks.

ık mark		
A		
В		
C		
or B		
B or C		
A, B or C		

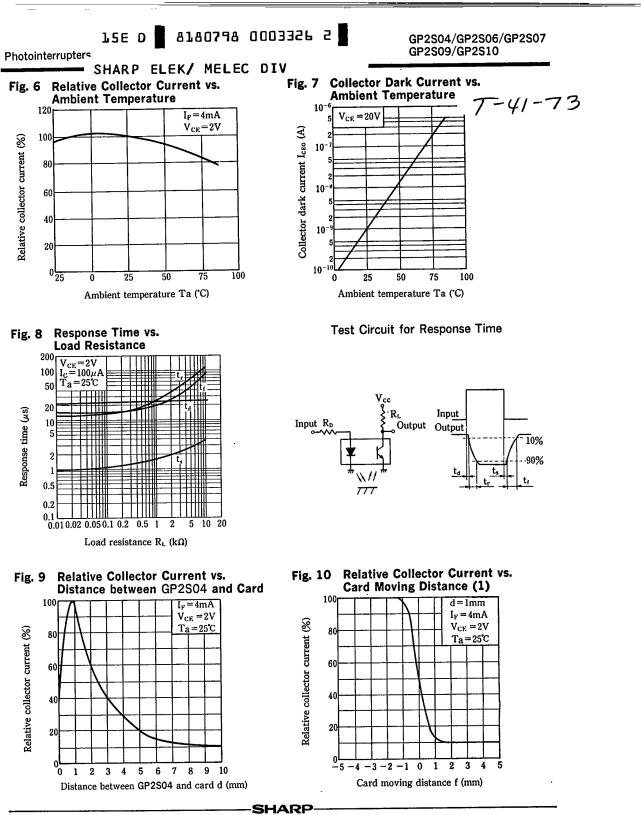


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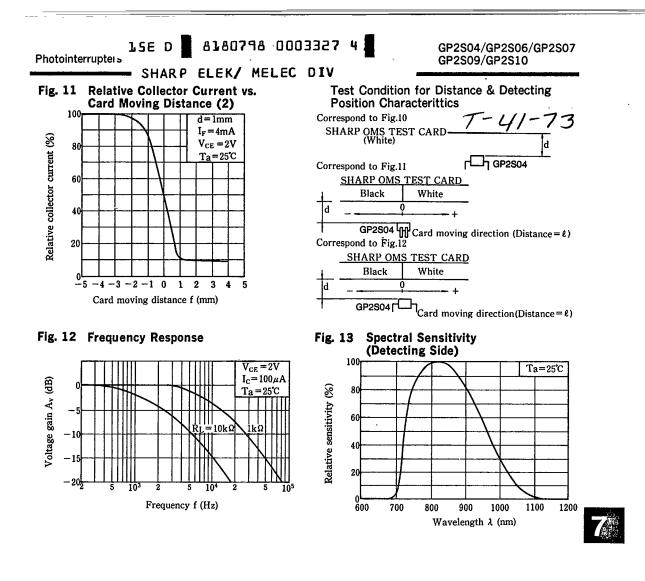


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SHARP

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