



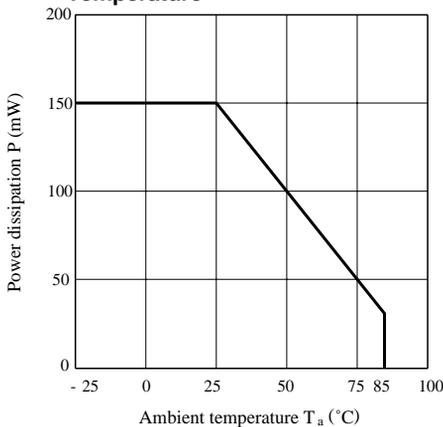
**Electro-optical Characteristics**

(Ta=25 °C)

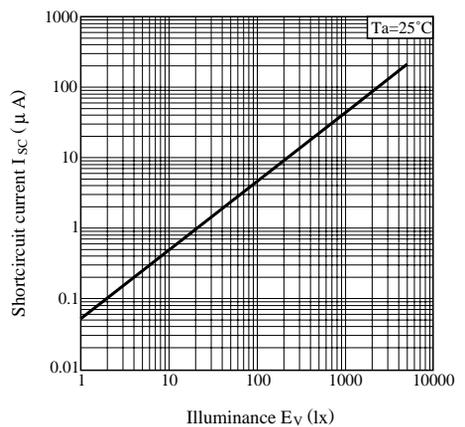
Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Shortcircuit current	I <sub>sc</sub>	*2 E <sub>v</sub> = 100 lx	3.5	4.7	6.3	μ A
Shortcircuit current temperature coefficient	β <sub>T</sub>	*2 E <sub>v</sub> = 100 lx	-	0.2	-	% /°C
Dark current	I <sub>d</sub>	V <sub>R</sub> = 10V, E <sub>e</sub> = 0	-	0.5	10	nA
Dark current temperature coefficient	α <sub>T</sub>	V <sub>R</sub> = 10V, E <sub>e</sub> = 0	-	3.5	5.0	times/10°C
Terminal capacitance	C <sub>t</sub>	V <sub>R</sub> = 3V, f= 1MHz	-	100	350	pF
Peak sensitivity wavelength	λ <sub>p</sub>		-	800	-	nm
Peak spectral sensitivity	K	l = 780nm	-	0.5	-	A/W
Response time	Rise Time	R <sub>L</sub> = 1kΩ V <sub>R</sub> = 10V	-	250	-	ns
	Fall Time		-	250	-	
Half intensity angle	Δ θ		-	± 45	-	°

\*2 E<sub>v</sub> : Illuminance by CIE standard light source A (tungsten lamp)

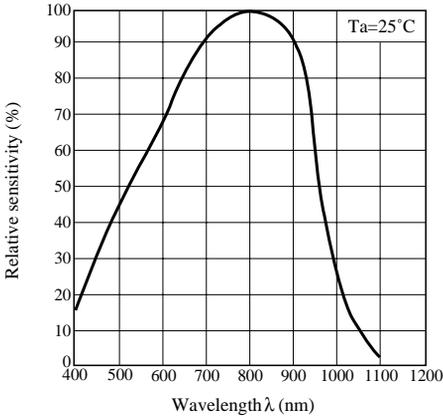
**Fig. 1 Power Dissipation vs. Ambient Temperature**



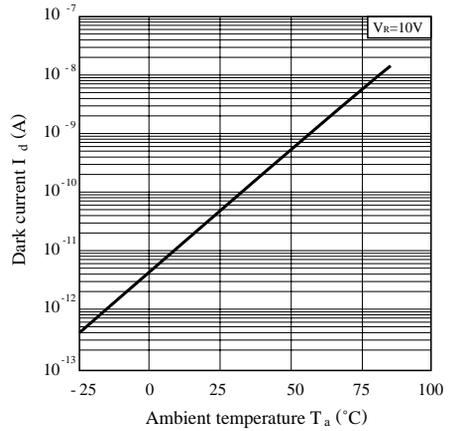
**Fig. 2 Shortcircuit Current vs. Illuminance**



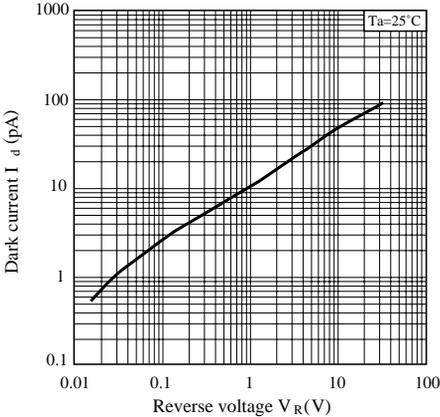
**Fig. 3 Spectral Sensitivity**



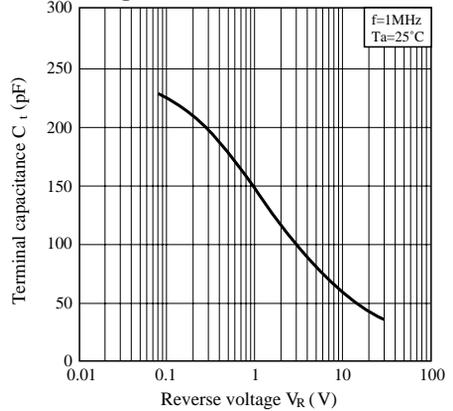
**Fig. 4 Dark Current vs. Ambient Temperature**



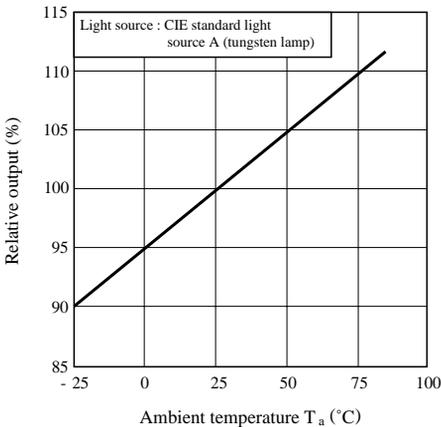
**Fig. 5 Dark Current vs. Reverse Voltage**



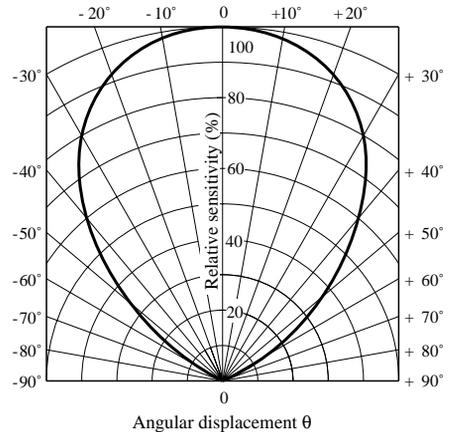
**Fig. 6 Terminal Capacitance vs. Reverse Voltage**



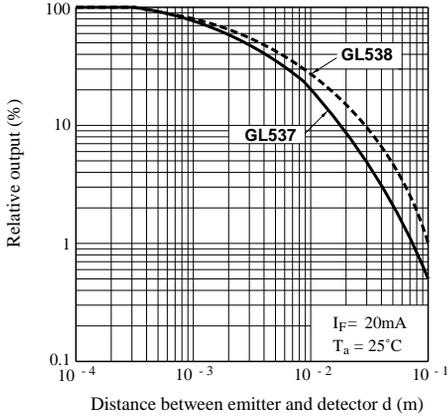
**Fig. 7 Relative Output vs. Ambient Temperature**



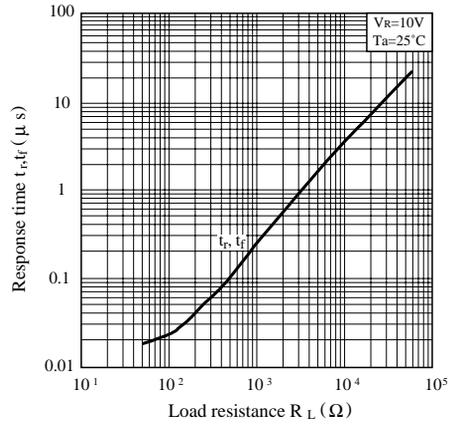
**Fig. 8 Radiation Diagram** ( $T_a = 25^\circ\text{C}$ )



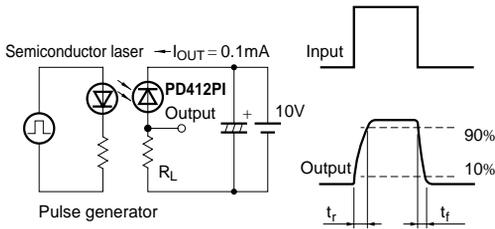
**Fig. 9 Relative Output vs. Distance**  
(Detector : GL537/GL538)



**Fig. 10 Response Time vs. Load Resistance**



**Test Circuit for Response Time**



● Please refer to the chapter "Precautions for Use". (Page 78 to 93)

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