Photointerrupter, Ultraminiature SMD type

Absolute maximum ratings (Ta=25°C)

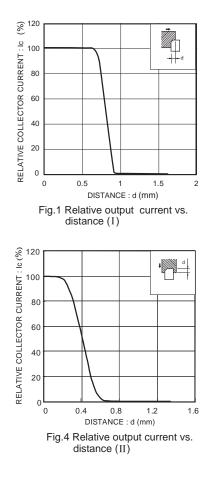
	Parameter	Symbol	Limits	Unit
ED)	Forward current	lF	30	mA
Input (LED)	Reverse voltage	VR	5	V
lnpu	Power dissipation	PD	80	mW
	Collector-emitter voltage	Vceo	30	V
out o- sisto	Emitter-collector voltage	Veco	4.5	V
Output (photo- (transistor)	Collector current	lc	30	mA
0 H	Collector power dissipation	Pc	80	mW
Operating temperature		Topr	-25 to +85	°C
	Storage temperature	Tstg	-30 to +85	°C

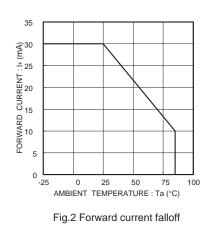
Electrical and optical characteristics (Ta=25°C)



Parameter			Symbol	Min.	Тур.	Max.	Unit	Conditions
Input charac- teristics	Forward voltage		VF	1.2	1.35	1.5	V	I⊧=5mA
	Reverse current		IR	-	-	10	μΑ	V _{R=5} V
Output charac- teristics	ଧି ଥି Dark current		ICEO	-	-	0.1	μΑ	Vce=10V
Outp chai teris	Peak sensitivity wavelength		λp	-	800	-	nm	-
	Collector curren	t	Ic1	5.0	-	25	mA	VCE=5V, IF=20mA
Transfer characteristics			Ic2	1.0	-	5	mA	Vce=5V, IF=5mA
	Collector-emitter saturation voltage		VCE(sat)	-	-	0.4	V	IF=20mA, Ic=0.1mA
	Response time	Rise time	tr	-	10	-	μs	Vcc=5V, I⊧=20mA, R∟=100Ω
		Fall time	tf	-	10	-	μs	VCC=5V, IF=20IIIA, RL=10052
red ter e	Cut-off frequence	^c y	fc	-	1	-	MHz	IF=5mA
Infrared light emitter diode	Peak light emitting wavelength		λρ	-	850	-	nm	* Non-coherent Infrared light emitting diode used.
Photo transistor	Response time		tr - tf	-	10	_	μs	$\label{eq:Vcc=5V, lc=1mA, Rl=100\Omega} V_{cc=5V, lc=1mA, Rl=100\Omega} \\ * This product is not designed to be protected against electromagnetic wave.$
Phote trans	Maximum sensitivity wavelength		λP	-	800	_	nm	_

Electrical and optical characteristics curves





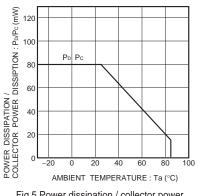
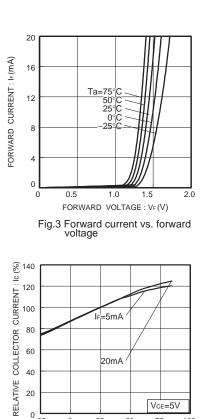
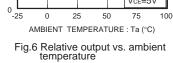
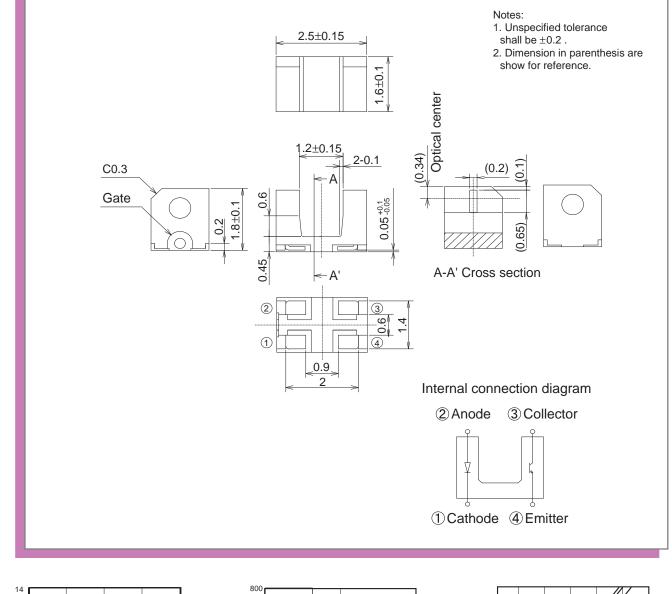


Fig.5 Power dissipation / collector power dissipation vs. ambient temperature





100



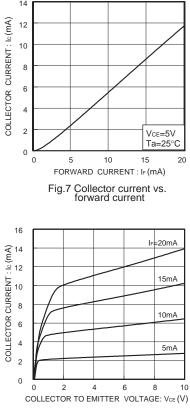
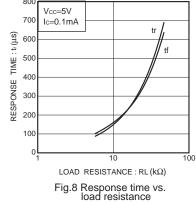
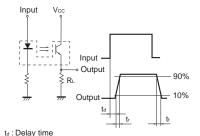
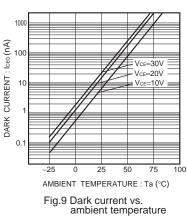


Fig.10 Output characteristics







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