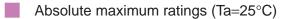
Thin type / Surface Mount type 4 Direction Detector



	Parameter	Symbol	Limits	Unit				
Input (LED)	Forward current	lF	50	mA				
	Reverse voltage	VR	5	V				
	Power dissipation	Po	80	mW				
Output (photo- (transistor)	Collector-emitter voltage	Vceo	30	V				
	Emitter-collector voltage	Veco	4.5	V				
	Collector current	Ic	30	mA				
	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)

Applications	
DSC(Digital steal of	٠ _a

DVC(Digital video camera) Digital handy phone, Fan herater,

Features

- 2) Optical Sensor3) 4 Pirection Detector4) Noise less type

Parameter			Symbol	Min.	Тур.	Max.	Unit	Conditions
Input charac- teristics	Forward voltage		VF	-	1.1	1.3	V	I _F =5mA
Inpu cha teris	Reverse current		IR	-	-	10	μΑ	V _R =10V
Output charac- teristics	Dark current		Iceo	-	-	0.5	μА	Vce=10V
Transfer characteristics	Collector current		Ic	50	80	-	μА	Vce=5V, Ir=5mA
	DC leakage current		lleak	-	10	20	μΑ	Vce=5V, Ir=5mA
	Collector-emitter saturation voltage		V _{CE(sat)}	_	_	0.4	V	I _F =5mA, I _C =0.05mA
	Response time	Rise time	tr	-	10	-	μs	V 5V L 0.05 A B 4000
		Fall time	tf	-	10	-	μs	Vcc=5V, I _c =0.05mA, R _L =100Ω
Infrared light emitter diode	Peak light emitting wavelength		λР	-	950	-	nm	Ir=50mA * Non-coherent Infrared light emitting diode used.
Photo transistor	Maximum sensitivity wavelength		λР	-	800	-	nm	-

Electrical and optical characteristics curves

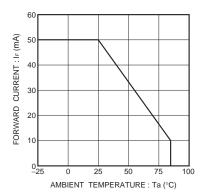


Fig.1 Forward current falloff

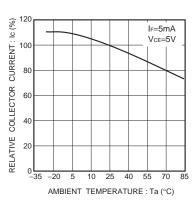


Fig.4 Relative output vs. ambient

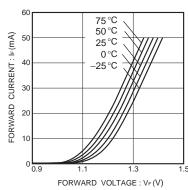


Fig.2 Forward current vs. forward

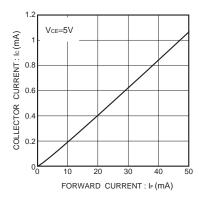


Fig.5 Collector current vs. forward current

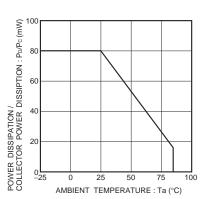


Fig.3 Power dissipation / collector power dissipation vs. ambient temperature

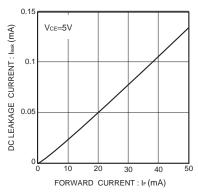
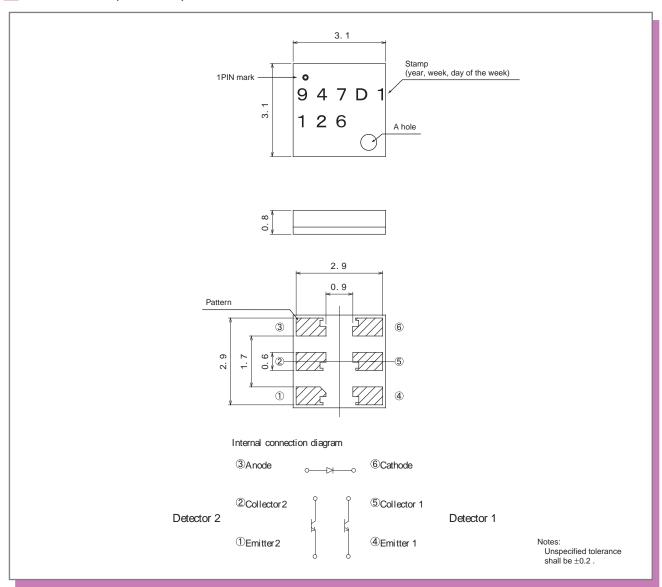
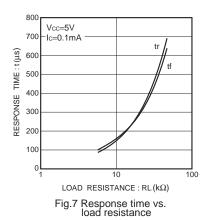
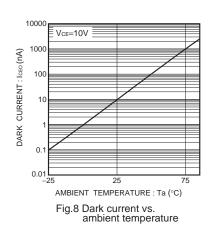


Fig.6 DC leakage current vs. forward current







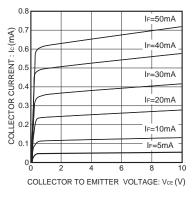
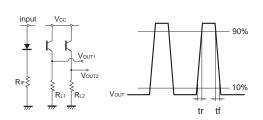


Fig.9 Output characteristics



Notes

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