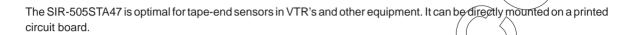
Infrared light emitting diode, top view type SIR-505STA47

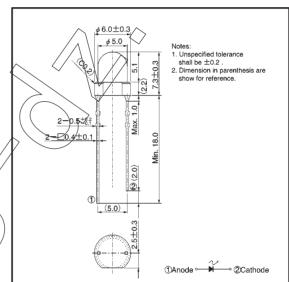


Applications

VCR's, Optical control equipment

- Features
- 1) $\phi 5$ mm plastic package.
- 2) Direct-mount type.
- 3) Long life and high reliability.

External dimensions (Units: mm)



●Absolute maximum ratings (Ta = 25°C)

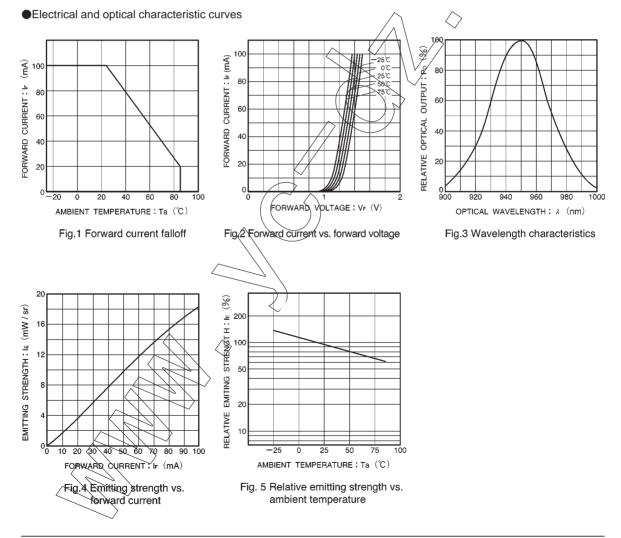
Parameter	Symbol	Limits	Unit	
Forward current	ĮĘ.	100	mA	
Reverse voltage	VA	5	V	
Power dissipation	P□	160	mW	
Pulse forward current	I _{FP} *	1.0	Α	
Operating temperature	Topr	−25~+85	Ĉ	
Storage temperature	Tstg	− 40∼ + 85	Ç	

^{*} Pulse width=0.1 msec, duty ratio 1%

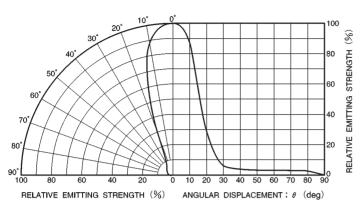
Sensors SIR-505STA47

●Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Optical output	Po	_	8.0	_	mW	I==50mA
Emitting strength	ΙE	5.6	10.0	25.7	mW/sr	I==50mA
Forward voltage	VF	_	1.38	1.6	٧	I=100mA
Reverse current	lR	_	_	10	μΑ	V _R =3V
Peak light emitting wavelength	λp	_	950	_	nm	I=50mA
Spectral line half width	Δλ	_	40	_	nm	IF=50mA
Half-viewing angle	θ 1/2	_	±15	_	deg	F=50mA
Response time	tr • tf	_	1.0	_	μS	Ir=50mA
Cut-off frequency	fc	_	1.0	_	MHz	I=50mA



Sensors SIR-505STA47



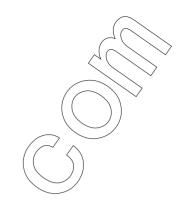


Fig. 6 Directional pattern



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