KODENSHI

特長FEATURES
- ●0.5mmaperture
- ●High-speedresponse
- ●EasytomountonP.C.B.
- ●Widelyapplicable

用途APPLICATIONS
- ●Tape-endsensors
- ●Timingsensors
- ●Edgesensors
- ●Copiers

最大定格MAXIMUMRATINGS

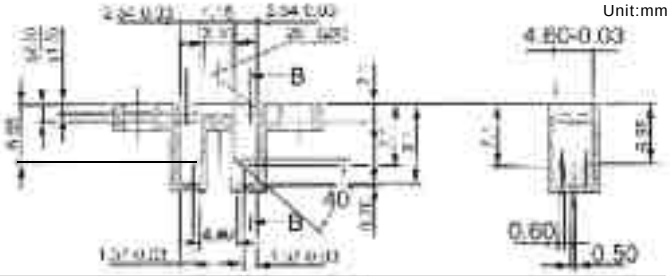
Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	100	mW
	Reversevoltage	V_R	5	V
	Forwardcurrent	I_F	60	mA
	Pulseforwardcurrent*1	I_{FP}	1	A
Output	Collectorpowerdissipation	P_C	100	mW
	Collectorcurrent	I_C	40	mA
	C-Evoltage	V_{CEO}	30	V
	E-Cvoltage	V_{ECO}	5	V
Operatingtemp.		Topr.	-20~+85	℃
Storagetemp.		Tstg.	-30~+85	℃
Solderingtemp.*2		Tsol.	240	℃

*1tw=100 μsec.,T=10msec.
*2t=5sec.

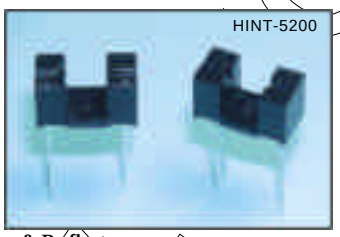
電氣的光學的特性ELECTRO-OPTICAL CHARACTERISTICS

Item		Symbol	Conditions	Min.	¥	Max.	Unit
Input	Forwardvoltage	VF	IF=30mA		1.2	1.5	V
	Reversecurrent	IR	Vn=5V			10	μA
	Capacitance	Ct	V=0,f=1KHZ		25		pF
	Peakwavelength	λp	VCE=10V		940		nm
Output	Collectordarkcurrent	Icco				0.1	μA
Lightcurrent		IL	VCC=5V,IF=20mA	0.3			mA
C-Esaturationvoltage		VCE(sat)	Ir=30mA,Ic=0.1mA			0.4	V
Switching speeds	Risetime	tr	VCC=5V IC=2mA RL=100Ω		5		μsec.
	Felltime	tf			5		μsec.

Unit:mm



Part No.	Product No.	Manuf.	Description
2931	FI-23FF	KODENSHI	Transistor Output 光遮斷器

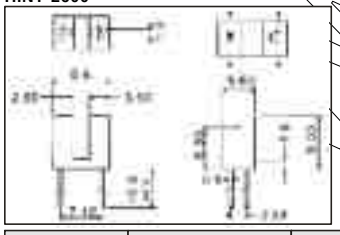


PhotoInterrupter & R eflector

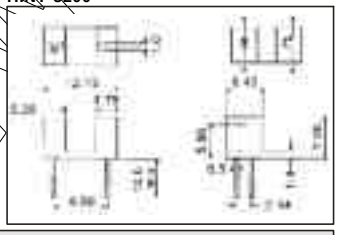
Ta=25℃

DeviceNo	Feature	Electro-opticalCharacteristics						
		IcMin	I_F	V_{CE}	I_{CEO} Max	TrTyp	TfTyp	V_{CE}(sat) Max
		mA	mA	V	uA	us	us	V
HINT-2600	gap=2.6mm	1.5	20	5	20	15	15	0.4
HINT-5200	gap=5.2mm	0.6	20	5	20	5	5	1.0

HINT-2600

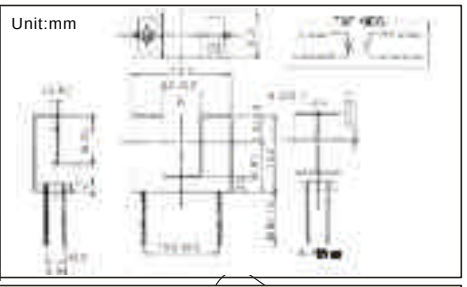


HINT-5200



PartNo.	Product No.	Description
16269	HINT-2600	光遮斷器 5Vce 20mAgap=2.6mm
16270	HINT-5200	光遮斷器 5Vce 20mAgap=5.2mm

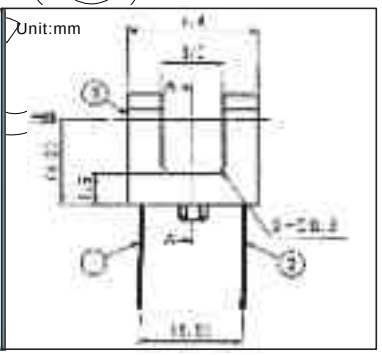
Unit:mm



AbsoluteMaximumRatings						
I(mA)	Vi(V)	P(mW)	VCEO(V)	I(mA)	PC (mW)	Topr.(℃)
100	5	100	30	40	100	-20~+85
VF(V)	IR (μA)	ICEO(A)	I(mA)	VCE(sat)(V)		tr(μs ec.)
IF=30mA	VR=5V	VCEO=10V	IF=20mA,VCE=5V	IF=30mA,IF=2mA		IC=2mA,RL=100Ω
Max.1.5	Max.10	Max.1x10⁻⁷	Min.0.5	Max.0.4		Typ.5

Part No	Product No.	Description
7847	SG-205	TransistorOutput 光遮斷器

Unit:mm



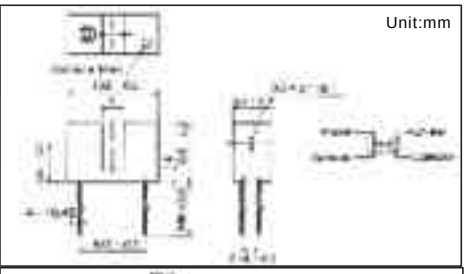
ABSOLUTEMAXIMUMRATINGS (Ta=25℃)

ITEM		SYMBOL	RATINGS	UNIT
INPUTLED	POWERDISSIPATION	PD	75	mW
	FORWARDCURRENT	IF	50	mA
	REVERSEVOLTAGE	VR	5	V
	PULSEFO.CURRENT*1	IFP	0.5	A
OUTPUTDETECTOR	COLLECTORDISSIPATION	PC	75	mW
	COLLECTORCURRENT	IC	20	mA
	C-EVOLTAGE	VCEO	30	V
	E-CVOLTAGE	VECO	5	V
RATEOFDECREASEOFTEMP.FORFORWARDCURRENT*2		ΔIF/ΔTa	-0.67	mA/℃
RATEOFDECREASEOFTEMP.FORCOLLECT.DISSIPATION*2		ΔPC/ΔTa	-1.00	mW/℃
OPERATINGTEMPERATURE*3		T opr	-25~+85	℃
STORAGETEMPERATURE * 3		Tstg	-30~+100	℃
SOLDERINGTEMPERATURE*4		Tsol	260	℃

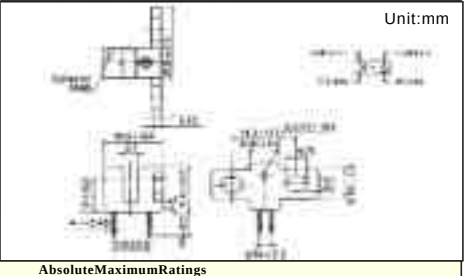
*1PULSEWIDTHtw≦100μsecPERIODT=10msec
*2Ta≧25℃~Topr(max.)
*3NOTCEBOUNDORDEW
*4THESOLDERINGSHOULDBE1mmAWAYFROMBOTTOMOFTHEHOLDER(T=WITHIN5sec)

Part No	Product No.	Description
16145	SG-223-B	TransistorOutput 光遮斷器

Unit:mm



Unit:mm



AbsoluteMaximumRatings						
I(mA)	Vi(V)	P(mW)	VCEO(V)	I(mA)	PC (mW)	Topr.(℃)
60	5	100	30	40	100	-20~+85
VF(V)	IR (μA)	ICEO(A)	I(mA)	VCE(sat)(V)		tr(μs ec.)
IF=30mA	VR=5V	VCEO=10V	IF=20mA,VCE=5V	IF=30mA,IF=0.1mA		IC=2mA,RL=100Ω
Max.1.5	Max.10	Max.1x10⁻⁷	Min.0.3	Max.0.4		Typ.5

Part No	Product No.	Description
7846	SG-23FI	TransistorOutput 光遮斷器
3850	SG-23FT	TransistorOutput 光遮斷器