

Photointerrupter

Model No: LBT-135

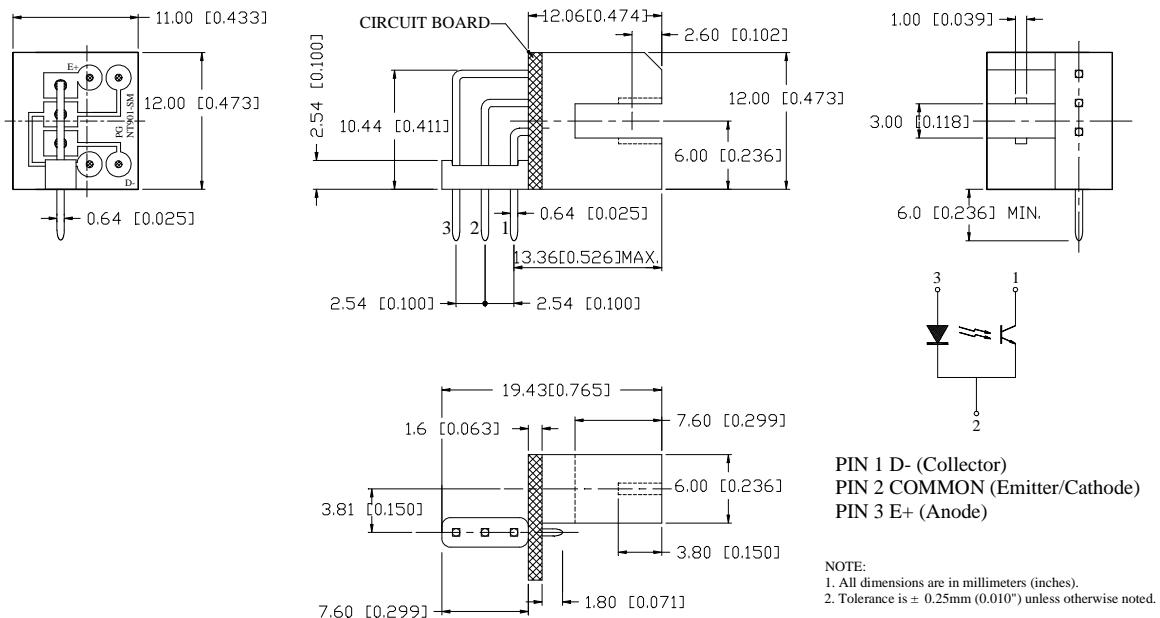
Features

- High sensing accuracy (Slit width: 1.0 mm)
- PWB direct mounting type package

Applications

- Copiers, printers, facsimiles
- Optoelectronic switches

Outline Dimensions



Absolute Maximum Ratings (Ambient Temperature: 25°C)

Item		Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Reverse voltage	V_R	5	V
	Pulse forward* ¹ current	I_{FP}	1	A
Output	Collector power dissipation	P_C	75	mW
	Collector current	I_C	50	mA
	C-E voltage	V_{CEO}	30	V
	E-C voltage	V_{ECO}	5	V
Operating Temp		$T_{opr.}$	-25~+85	°C
Storage Temp		$T_{stg.}$	-30~+100	°C
Soldering Temperature		T_{sol}	240	°C

ELECTRO-OPTICAL CHARACTERISTICS

(Ta = 25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	V_F	$I_F=20\text{mA}$		1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$			10	μA
	Peak wavelength	λ_p			940		nm
Output	Collector dark current	I_D	$V_{CE}=24\text{V}, I_F=0$		5	100	nA
	Collector current	I_C	$V_{CE}=5\text{V}, I_F=20\text{mA}$	0.5	2.0		mA
	C-E Saturation voltage	$V_{CE(\text{SAT})}$	$I_C=1\text{mA}, I_F=20\text{mA}$		0.15	0.4	V
Switching speeds	Rise time	t_r	$V_{CE}=2\text{V}, I_C=100\ \mu\text{A}$		30		$\mu\text{sec.}$
	Fall time	t_f	$R_L=1\text{k}\Omega$		25		$\mu\text{sec.}$

Reference Data

