SIEMENS

Visible and IR LEDs in SMT-TOPLEDTM Package— Tape and Reel Packaging Data Appnote 52

Applicable Part Numbers—A Sampling Visible LEDs

LS T670 High Efficiency Red LY T670 Yellow LG T670 Green LO T670 Orange

IR Emitters/Detectors

SFH320	. Phototransistor
SFH320F	. Phototransistor with daylight filter
SFH420	. GaAs 950 nm IRED

For Automatic Placement

These parts come packaged on 18 cm diameter spools with 1500 pieces/spool. 33 cm spools (7500 pieces) are also available. The tape is compartmentalized and sealed with a foil cover.

Spool/Tape Characteristics

Maximum Storage Temperature	40° +5°
C/R-H=95%/240 hrs.	
Tape Tear Resistance (max.)	≥10 N
(at right angle to direction of unreeling)	
Cover Foil Pull Force	0.2 to 1.0 N
(pull speed=300 mm/min.)	

Polarity and Orientation

- Mounting surface (bottom) on bottom of tape compartment
- · All devices are oriented in one direction

Reel Marking

All reels are marked with manufacturer's name, part number, date code, and order number.

Parameter	Symbol	Dimensions (mm)	Notes	
Tape Width	W	8 ±0.3		
Carrier Tape Thickness	t	0.3 max.		
Sprocket Hole Pitch	P ₀	4 ±0.1	Cumulative pitch error, ±0.5 mm pitches	
Sprocket Hole Diameter	D ₀	1.5 +0.1		
Sprocket Hole Distance	E	1.75 ±0.1		
Component Position	F	3.5 ±0.05	Center hole to center compartment	
	P ₂	2 ±0.05		
Component to Component Position	P3	4		
Compartment Dimensions	K	3 max.	See individual components for exact dimensions	
	OL	15° max.		
	R ₁ , R ₂	0.5 max.		
	H ₀	0.3 +0.1/-0.05	Between inner side or the compartment bottom and the reference level for measuring A_0 , B_0	
	A ₀		Tolerances chosen so that the components can change their	
	B ₀		orientation, but can easily be removed from the tape	
Hole in Compartment	D ₁	1 +0.2	Tolerance to the center or sprocket hole: ±0.1 mm	
Fixing Tape Width	W ₁	5.5 typ. 0.1 max.	Fixing tape not to cover sprocket holes, nor protrude beyond carrier tape so not to exceed max. tape width	
Device Tilt in Compartment		15° max.	'	
Bending Radius	R	25 min.		