

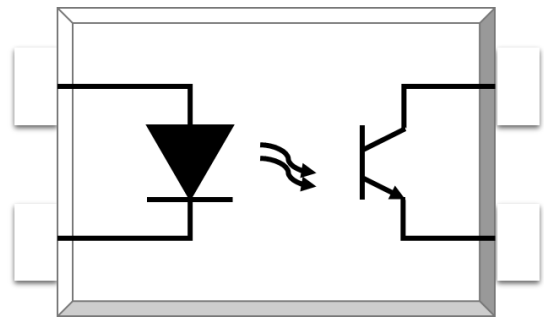
**Description**

**Features**

**Applications**

- 
- 
- 
- 

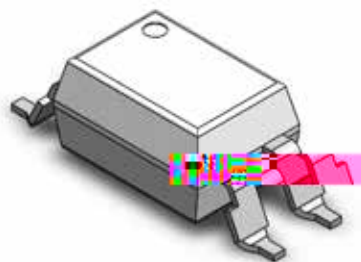
**SCHEMATIC**



**PIN DEFINITION**

1. Anode
2. Cathode
3. Emitter
4. Collector

**PACKAGE OUTLINE**



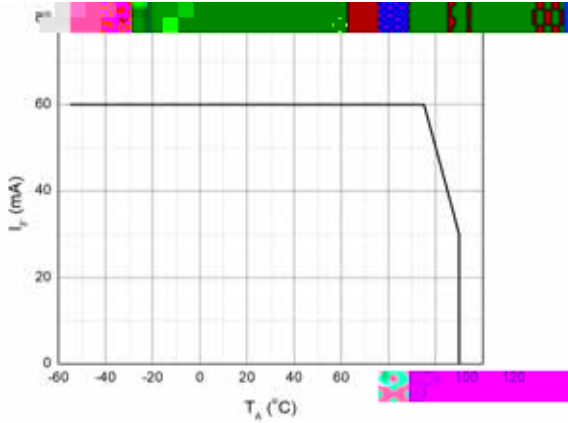




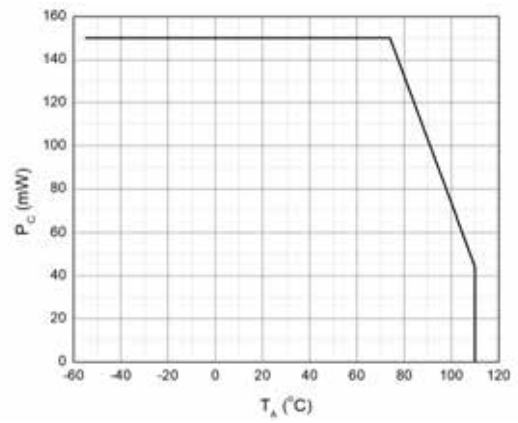


**CHARACTERISTIC CURVES**

**Fig.1 Forward Current vs. Ambient Temperature**

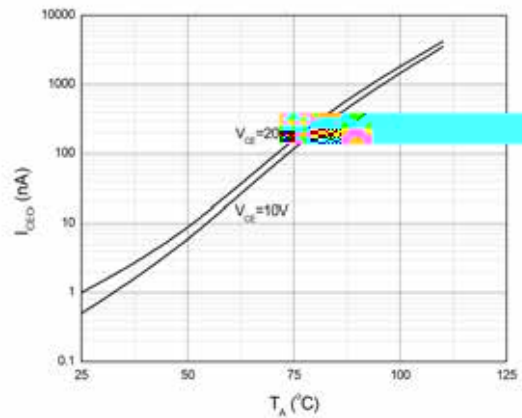


**Fig.2 Collector Power Dissipation vs. Ambient Temperature**



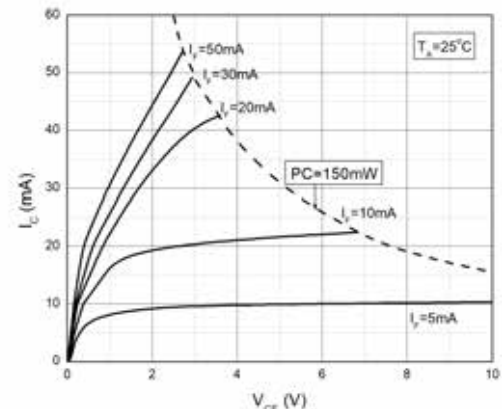
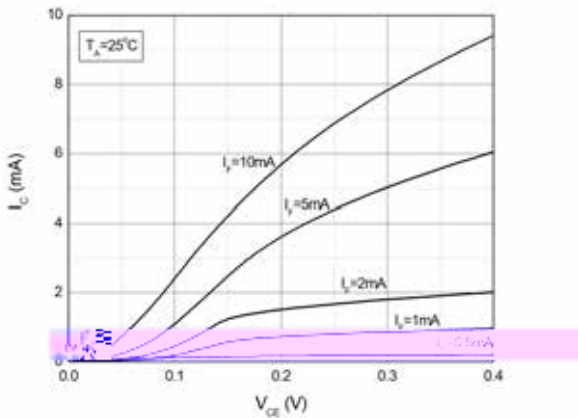
**Fig.3 Forward Current vs. Forward Voltage**

**Fig.4 Collector Dark Current vs. Ambient Temperature**



**Fig.5 Collector Current vs. Collector-emitter Voltage**

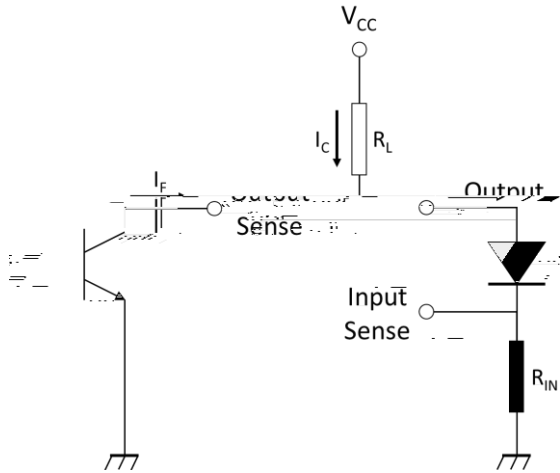
**Fig.6 Collector Current vs. Collector-emitter Voltage**



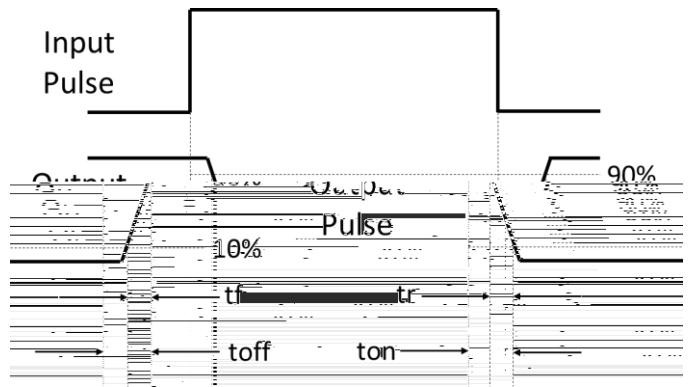
# ***TD817 Series***

**TEST CIRCUITS**

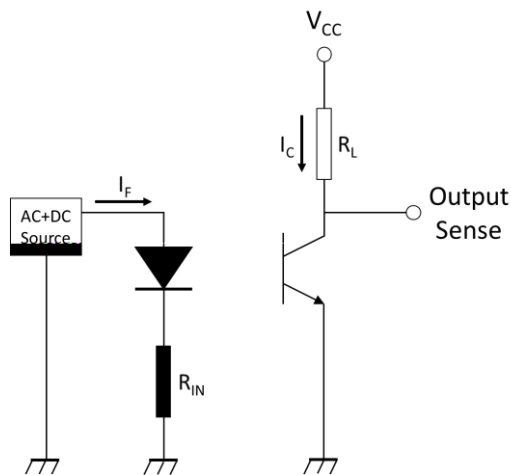
**Fig.12 Test Circuits of Response Time**



**Fig.13 Curves of Response Time**



**Fig.14 Test Circuits of Frequency Response**





**PACKAGE DIMENSIONS** Dimensions in mm unless otherwise stated)

**Standard DIP – Through Hole (DIP Type)**

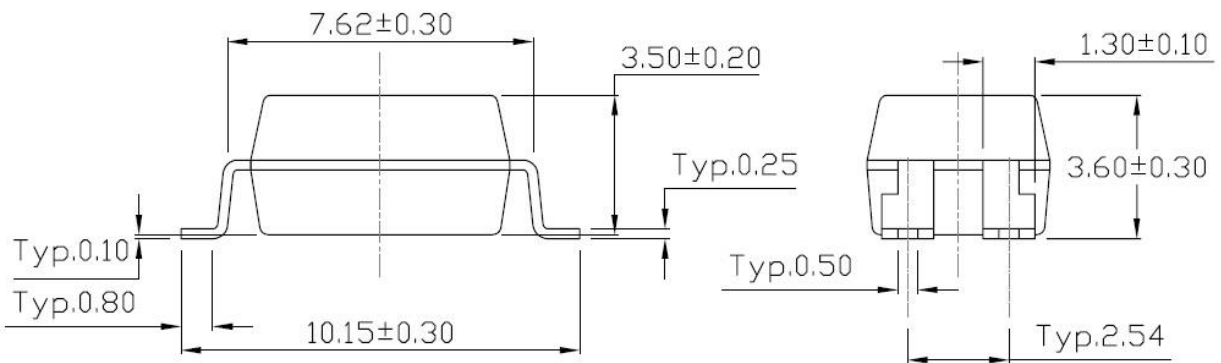
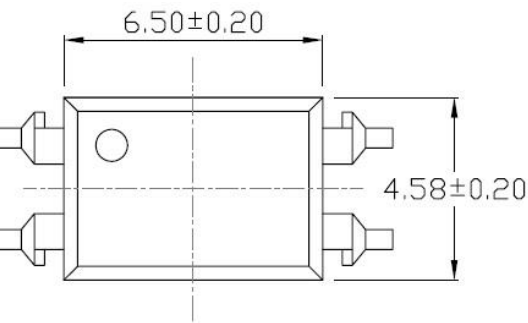


**Gullwing (400mil) Lead Forming – Through Hole (M Type)**



**PACKAGE DIMENSIONS** Dimensions in mm unless otherwise stated)

**Surface Mount Lead Forming (S Type)**







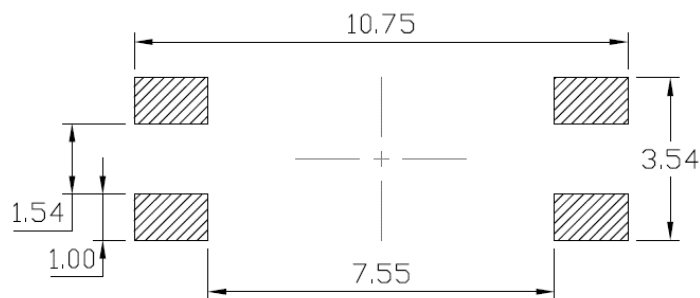
**PACKAGE DIMENSIONS** Dimensions in mm unless otherwise stated)

**Surface Mount (Gullwing) Lead Forming (SLM Type)**

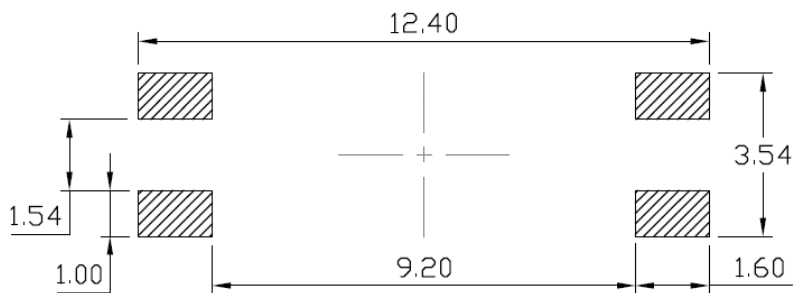


**RECOMMENDED SOLDER MASK** Dimensions in mm unless otherwise stated)

**Surface Mount Lead Forming & Surface Mount (Low Profile) Lead Forming**

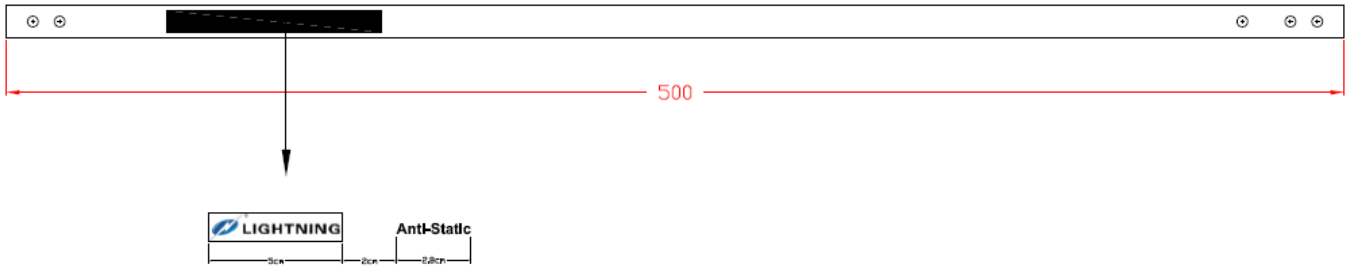
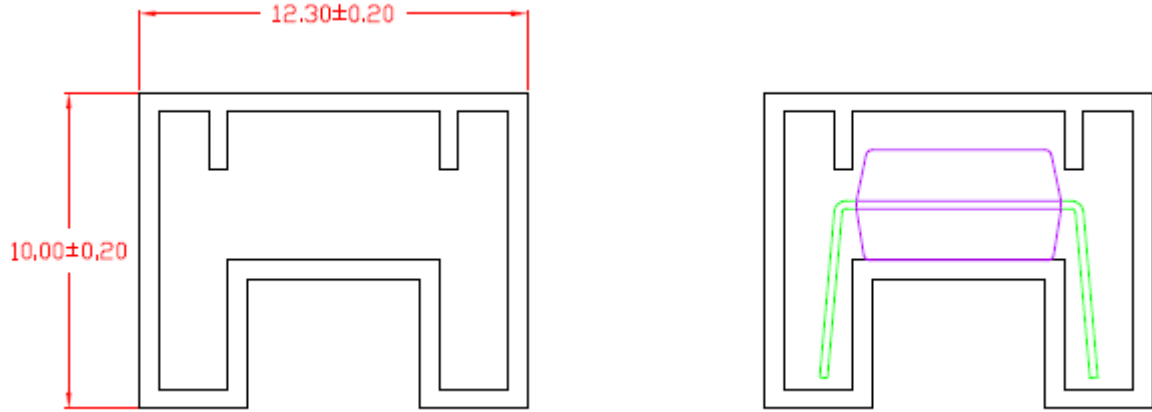


**Surface Mount (Gullwing) Lead Forming**

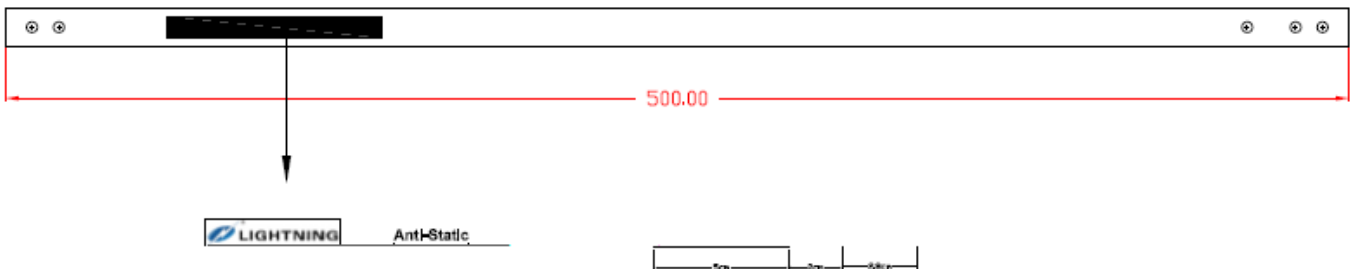
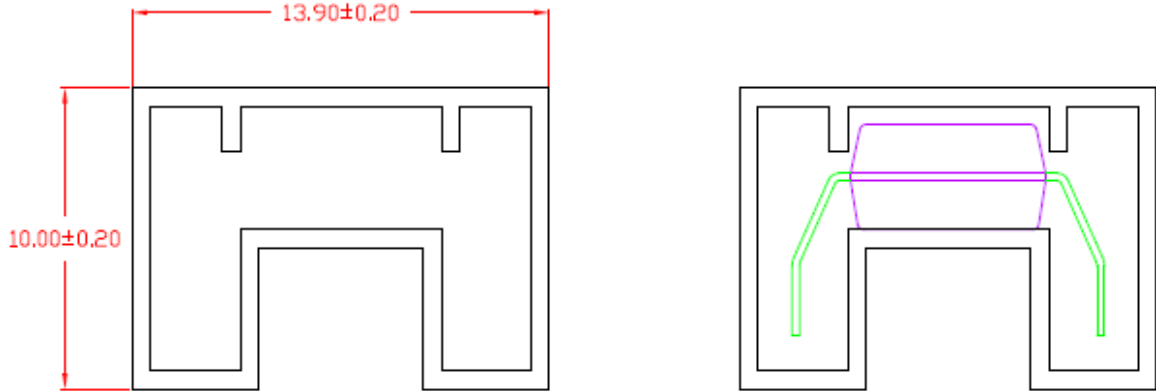


**TUBE SPECIFICATIONS** Dimensions in mm unless otherwise stated)

**Standard DIP**



**Option M**



**BOX SPECIFICATIONS** Tube Type)

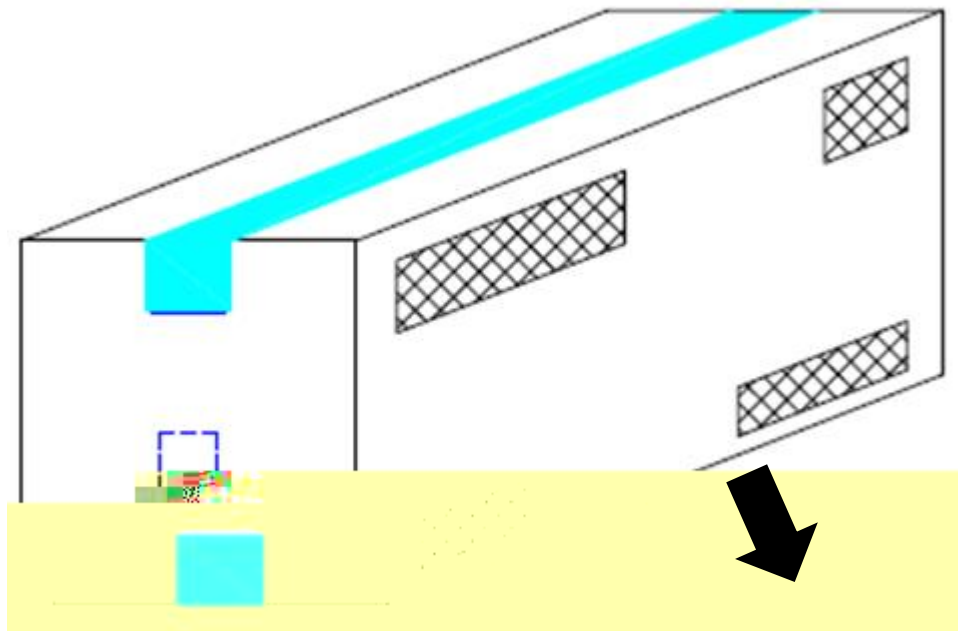
**Inner Box**

Label



30 3    96 5    2 5

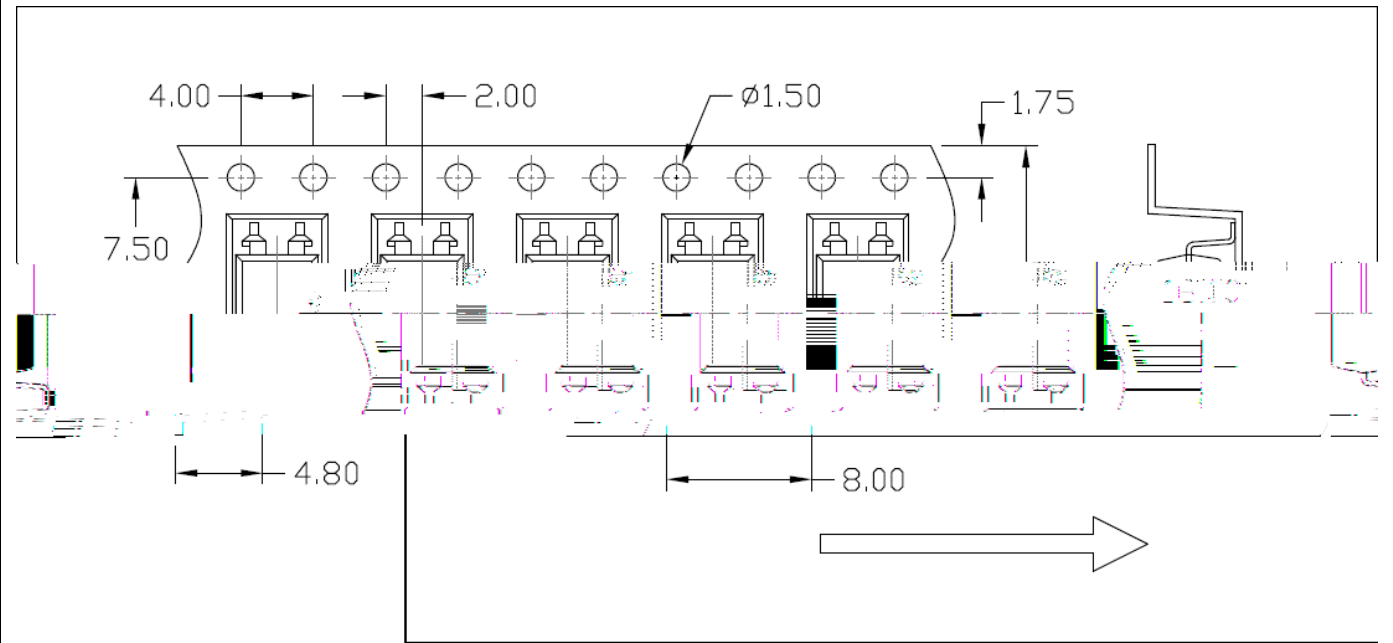
**Outer Box**



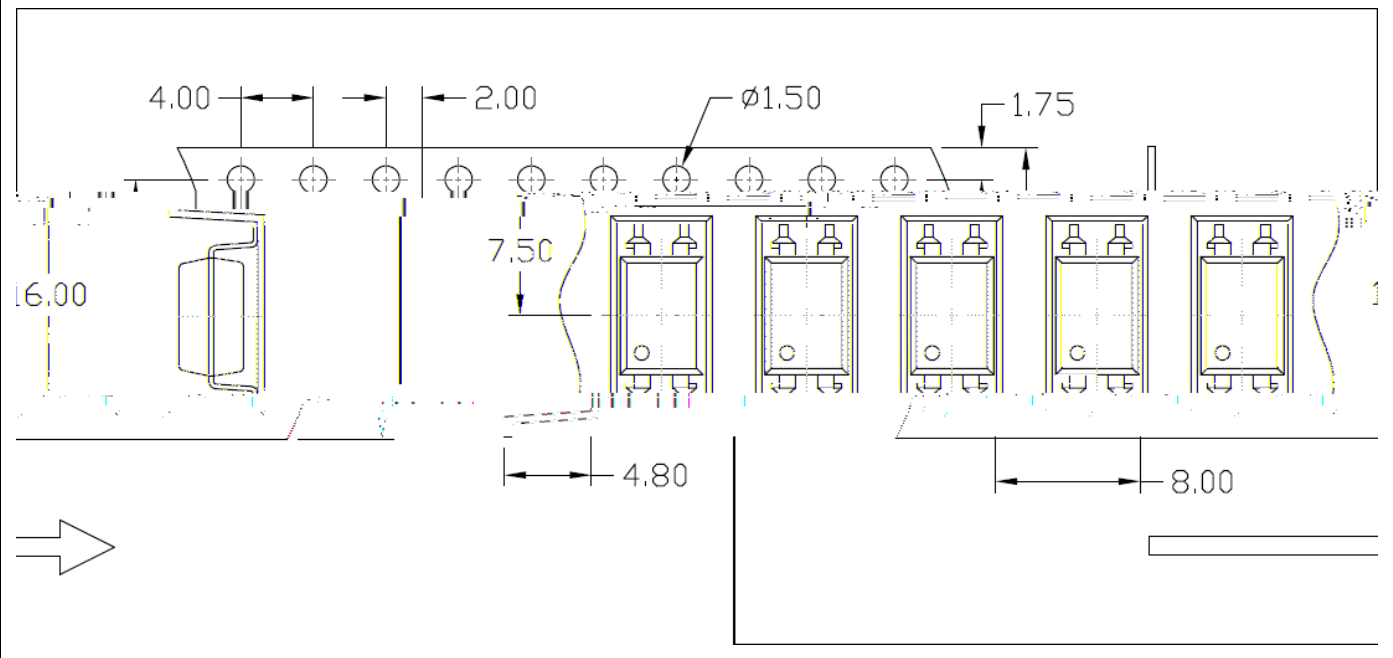
31 3    01 3    03 3

**CARRIER TAPE SPECIFICATIONS** Dimensions in mm unless otherwise stated)

**Option S(T1) & SL(T1)**



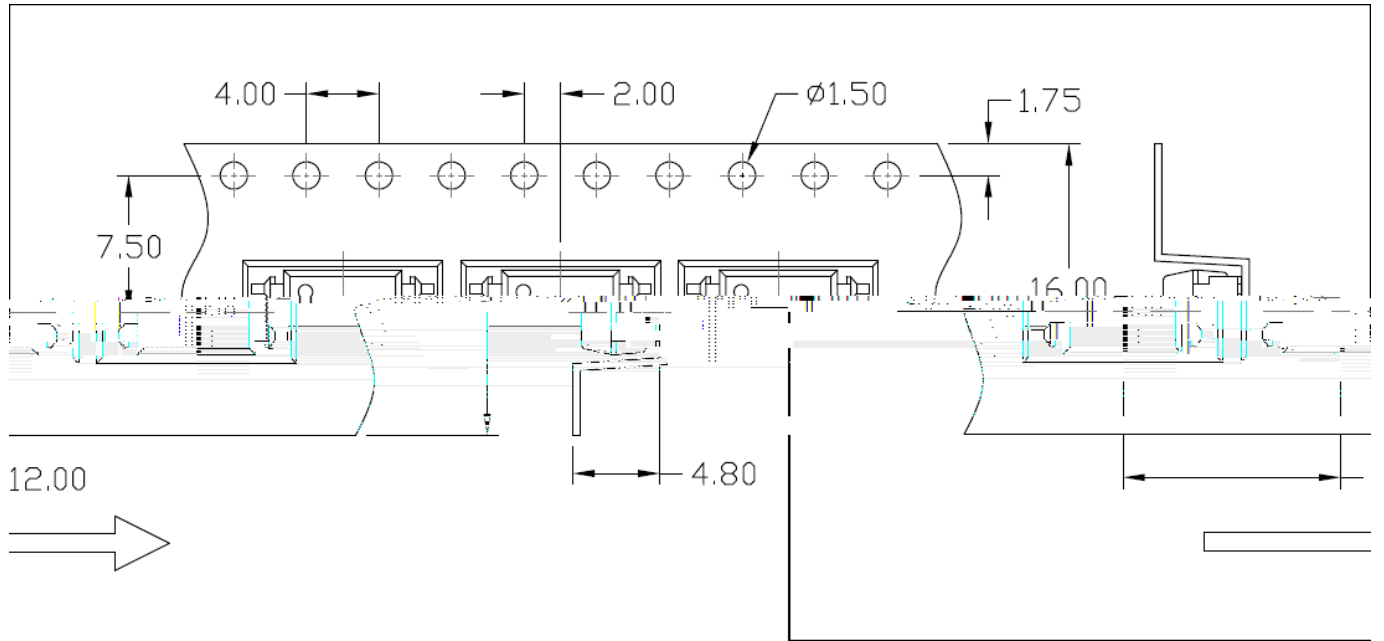
**Option S(T2) & SL(T2)**



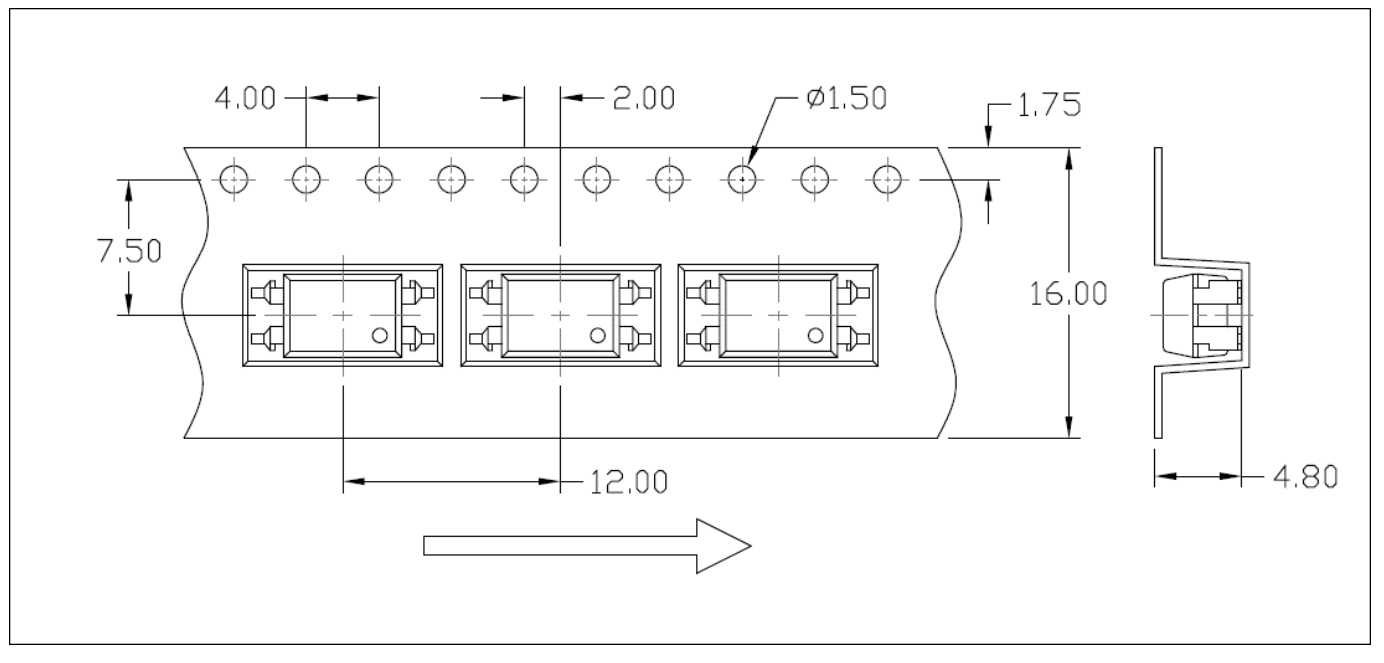


### CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

#### Option S(T3) & SL(T3)

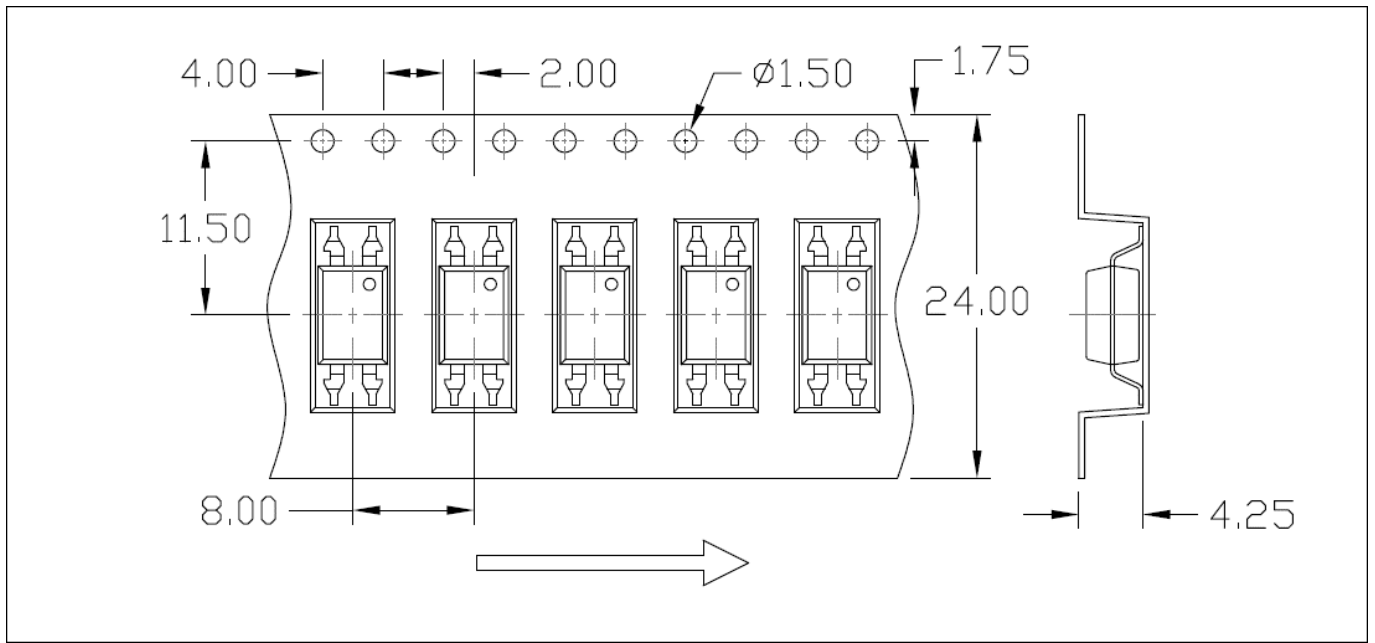


#### Option S(T4) & SL(T4)

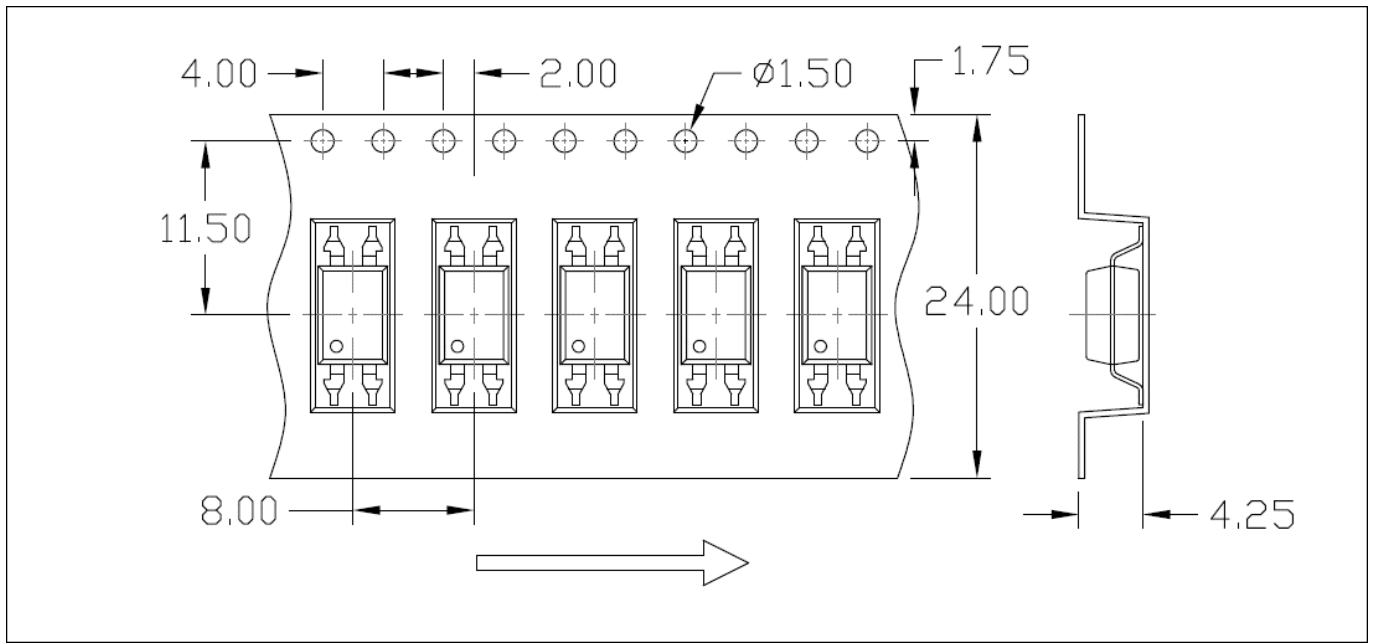


**CARRIER TAPE SPECIFICATIONS** Dimensions in mm unless otherwise stated)

**Option SLM(T1)**

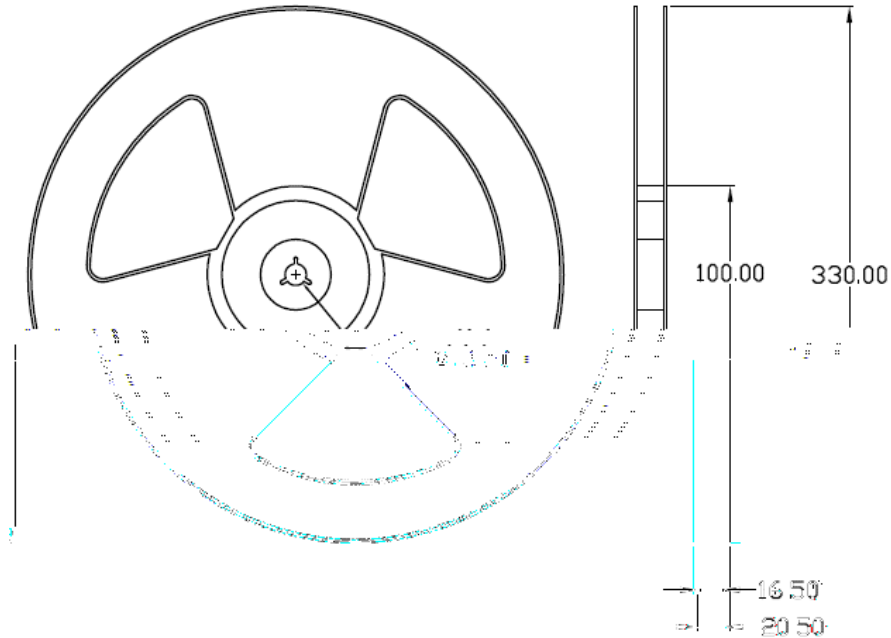


**Option SLM(T2)**

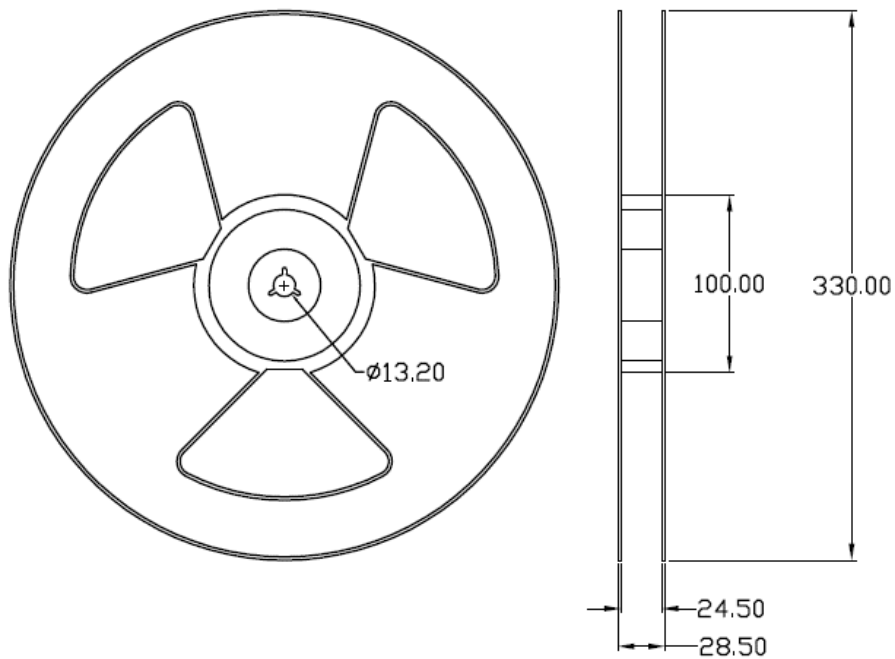


**REEL SPECIFICATIONS** Dimensions in mm unless otherwise stated)

**Option S & Option SL**



**Option SLM**



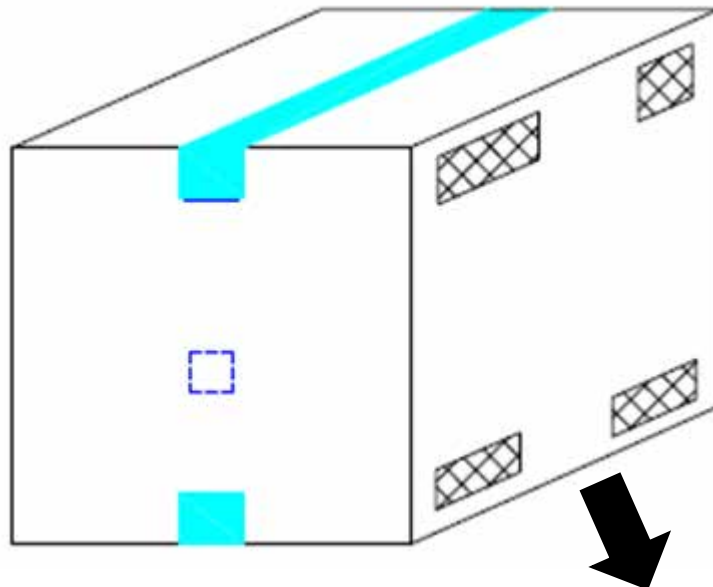


### BOX SPECIFICATIONS (Reel Type)

#### Inner Box

14 14 47

#### Outer Box



23 14 14





**ORDERING AND MARKING INFORMATION**

**MARKING INFORMATION**

- TD : Company Abbr.
- F : Leadframe Option
- 817 : Part Number
- X : CTR Rank
- V P rp 2 S W L R Q

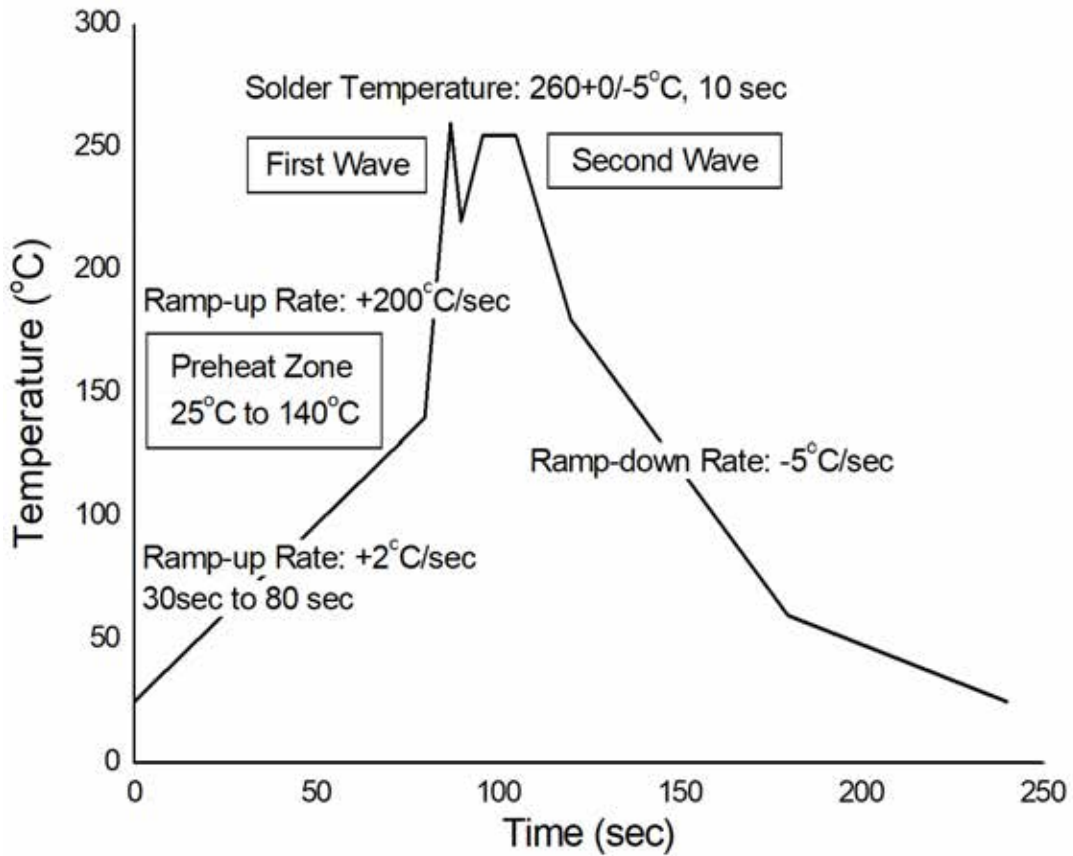
**df C =**





**TEMPERATURE PROFILE OF SOLDERING**

**WAVE SOLDERING (JESD22-A111 COMPLIANT)**



**HAND SOLDERING BY SOLDERING IRON**


- ct ct ct ct ct
- ct ct



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# ***TD817 Series***

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## ***DIP4, DC Input, Photo Transistor Coupler***