

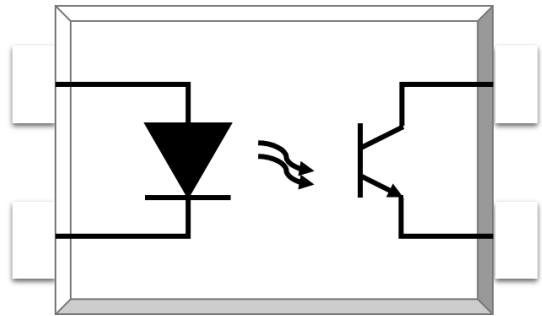
Description

Features

Applications

-
-
-
-

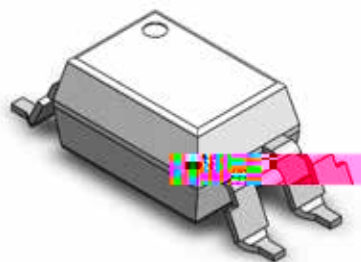
SCHEMATIC



PIN DEFINITION

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

PACKAGE OUTLINE





CHARACTERISTIC CURVES

Fig.1 Forward Current vs. Ambient Temperature

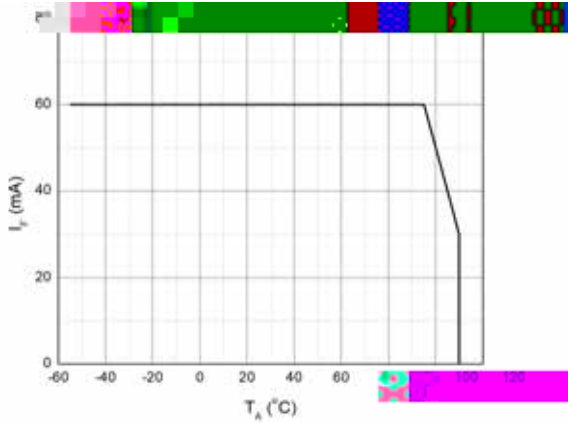


Fig.2 Collector Power Dissipation vs. Ambient Temperature

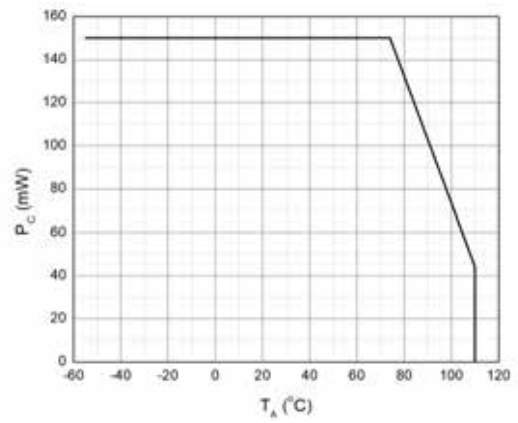


Fig.3 Forward Current vs. Forward Voltage

Fig.4 Collector Dark Current vs. Ambient Temperature

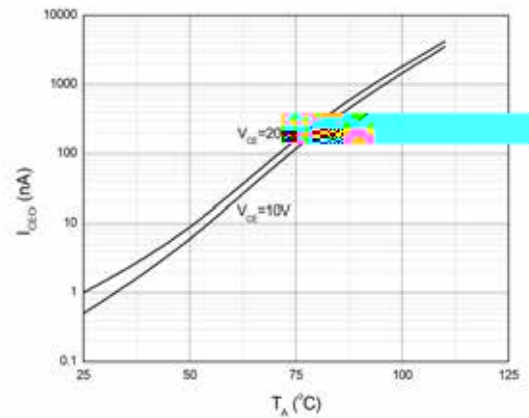
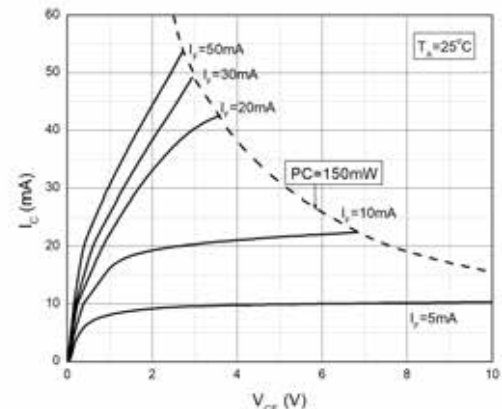
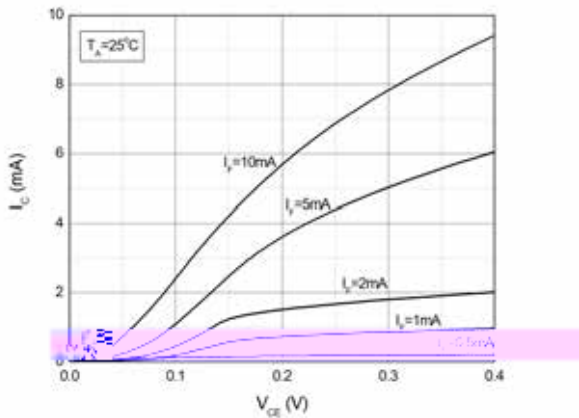


Fig.5 Collector Current vs. Collector-emitter Voltage

Fig.6 Collector Current vs. Collector-emitter Voltage



TD817 Series

TEST CIRCUITS

Fig.12 Test Circuits of Response Time

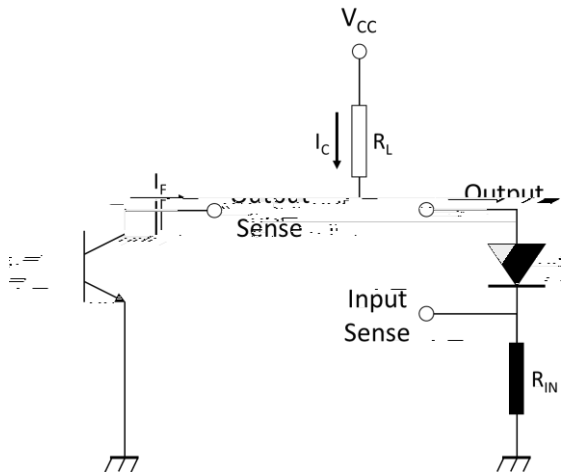


Fig.13 Curves of Response Time

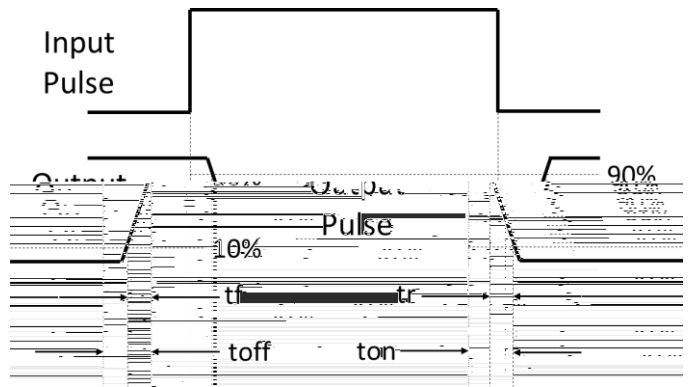
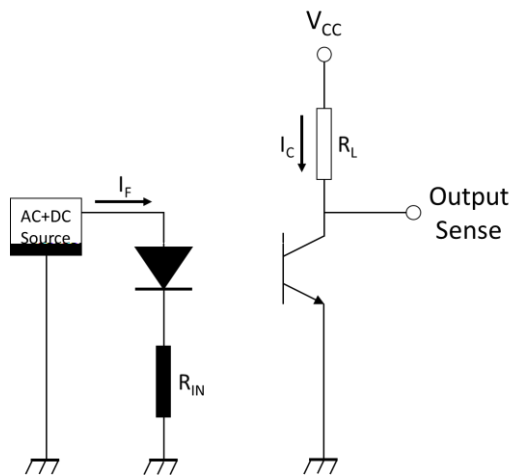


Fig.14 Test Circuits of Frequency Response



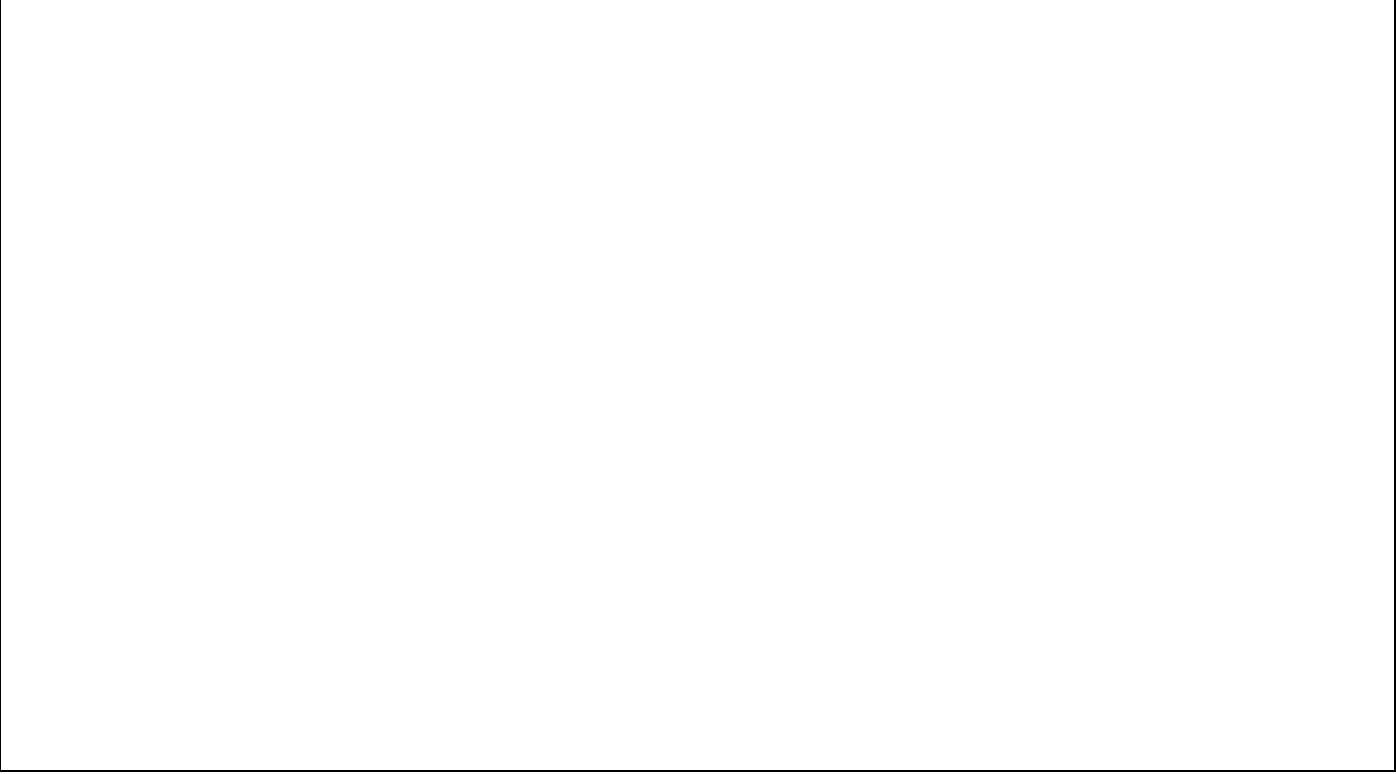


PACKAGE DIMENSIONS Dimensions in mm unless otherwise stated)

Standard DIP – Through Hole (DIP Type)

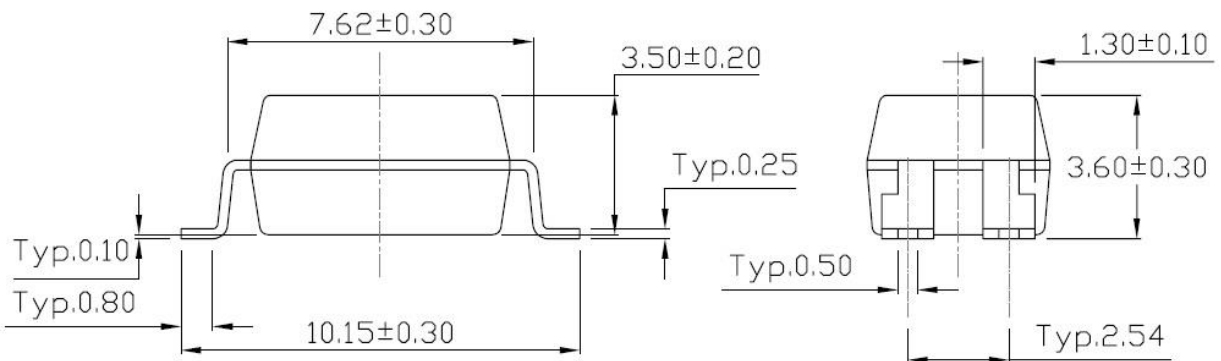
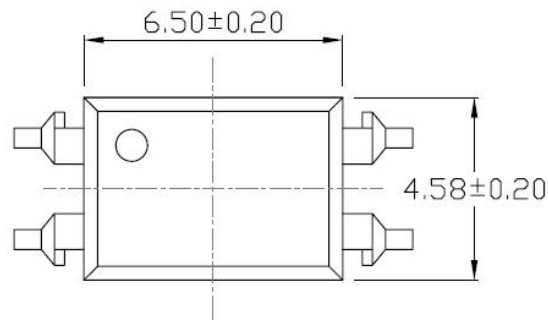


Gullwing (400mil) Lead Forming – Through Hole (M Type)



PACKAGE DIMENSIONS Dimensions in mm unless otherwise stated)

Surface Mount Lead Forming (S Type)





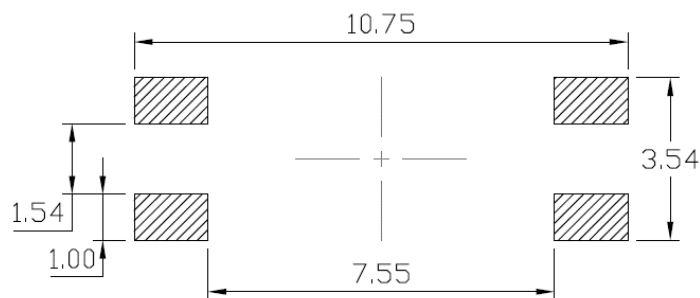
PACKAGE DIMENSIONS Dimensions in mm unless otherwise stated)

Surface Mount (Gullwing) Lead Forming (SLM Type)

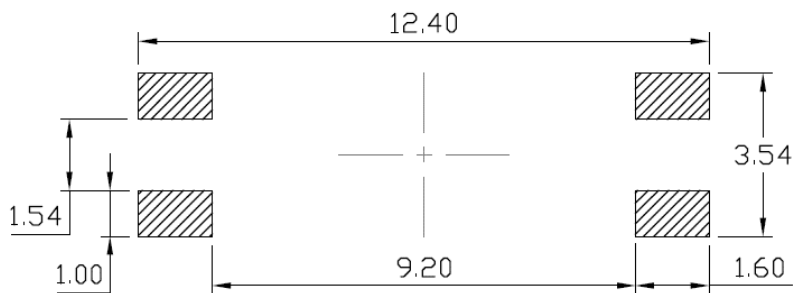


RECOMMENDED SOLDER MASK Dimensions in mm unless otherwise stated)

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

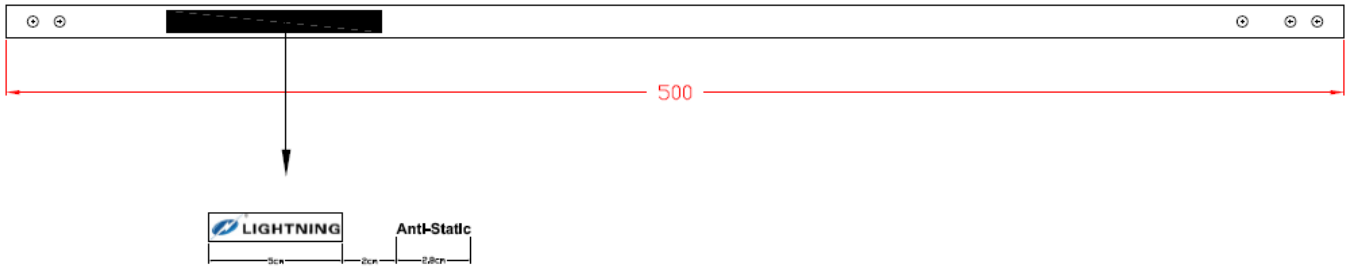
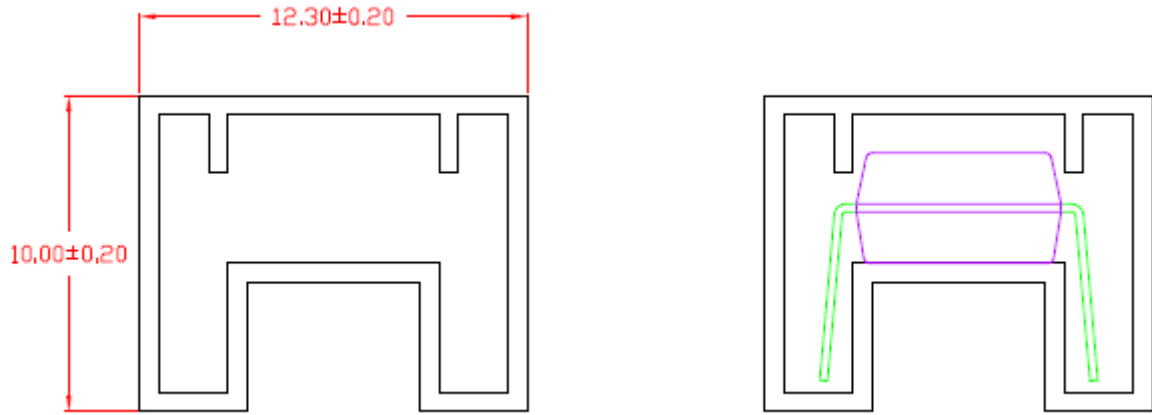


Surface Mount (Gullwing) Lead Forming

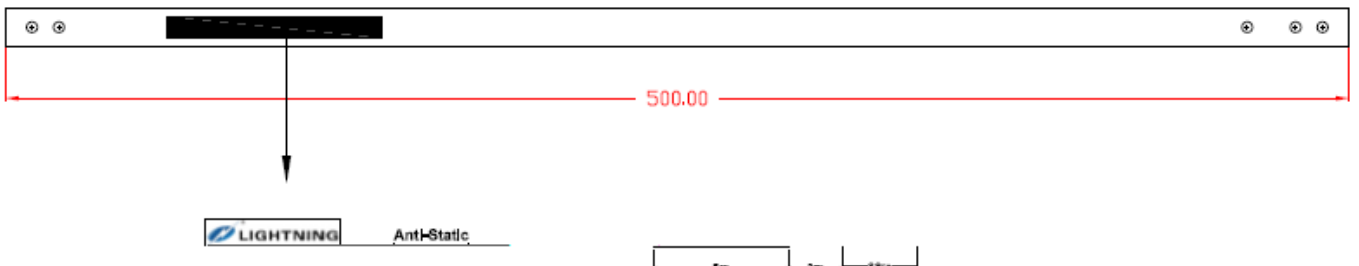
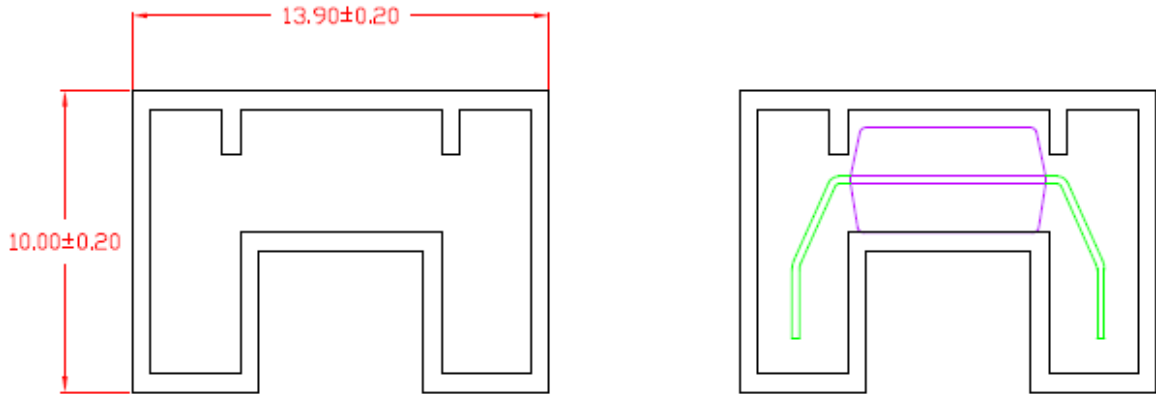


TUBE SPECIFICATIONS Dimensions in mm unless otherwise stated)

Standard DIP



Option M



BOX SPECIFICATIONS Tube Type)

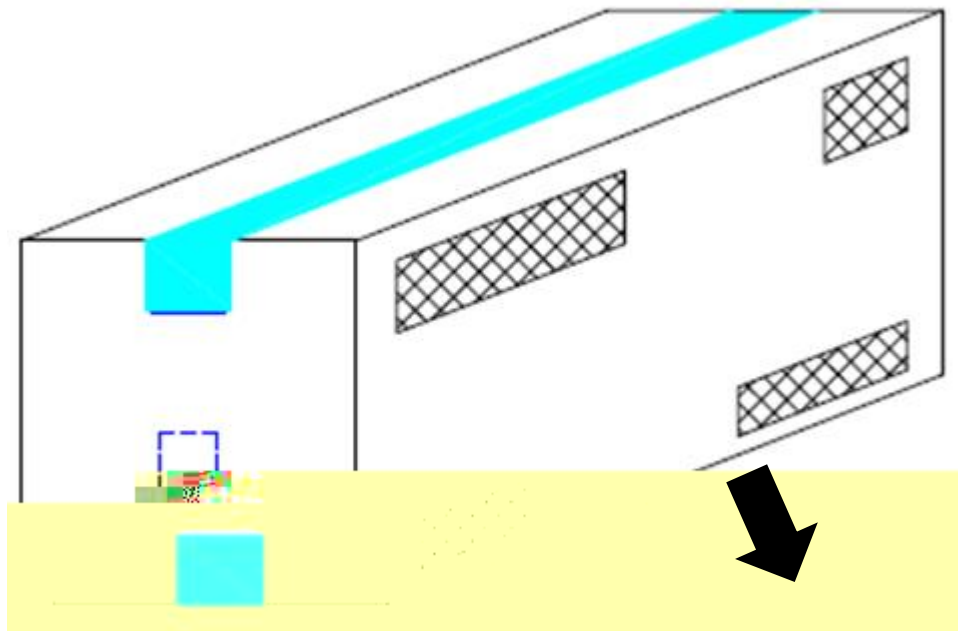
Inner Box

Label



30 3 96 5 2 5

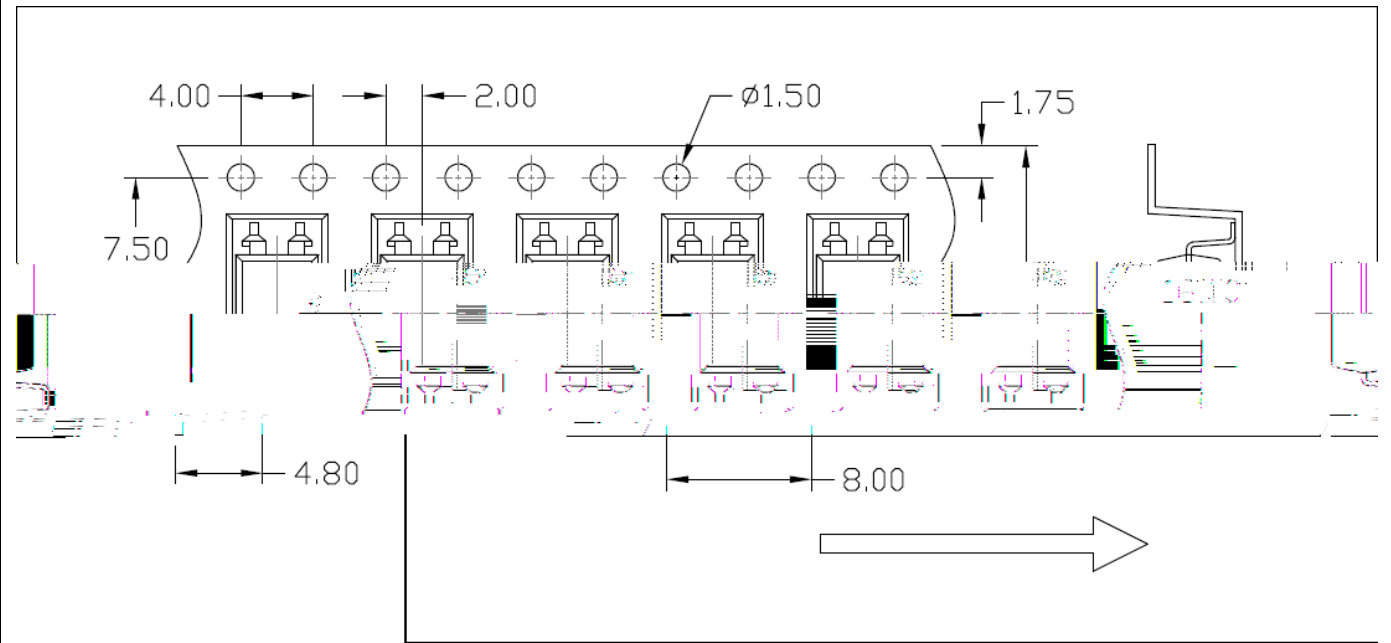
Outer Box



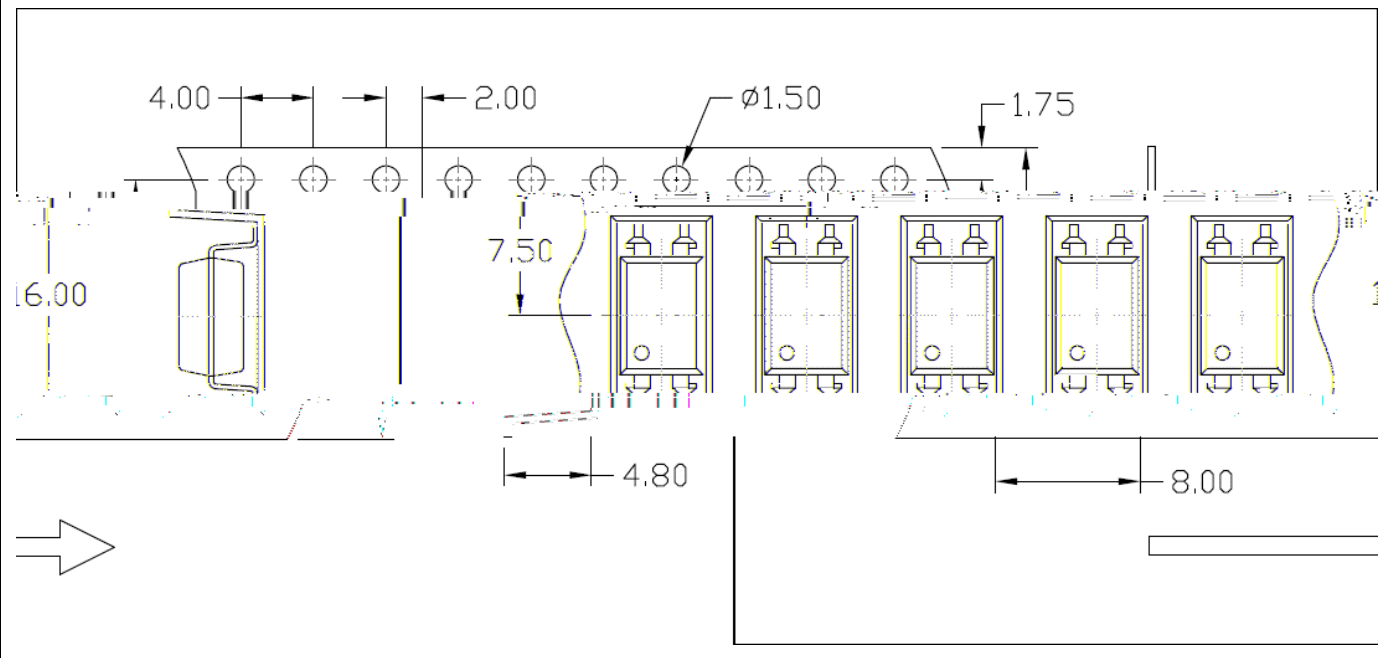
31 3 01 3 03 3

CARRIER TAPE SPECIFICATIONS Dimensions in mm unless otherwise stated)

Option S(T1) & SL(T1)

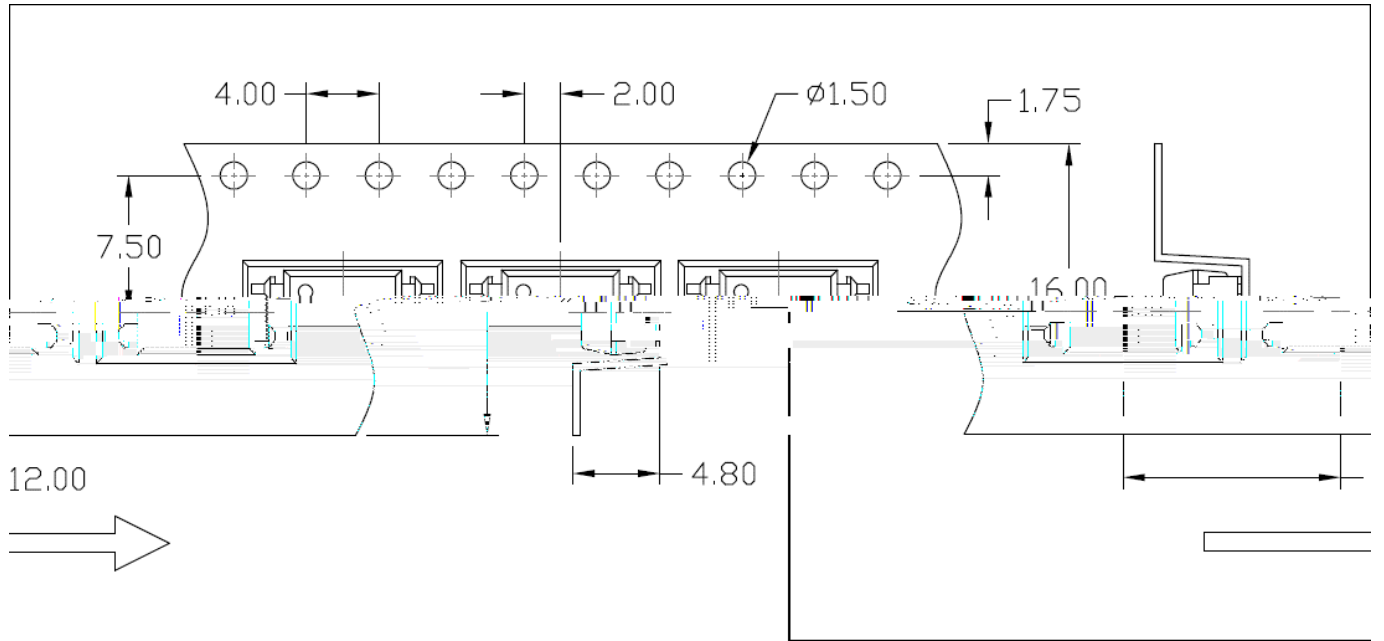


Option S(T2) & SL(T2)

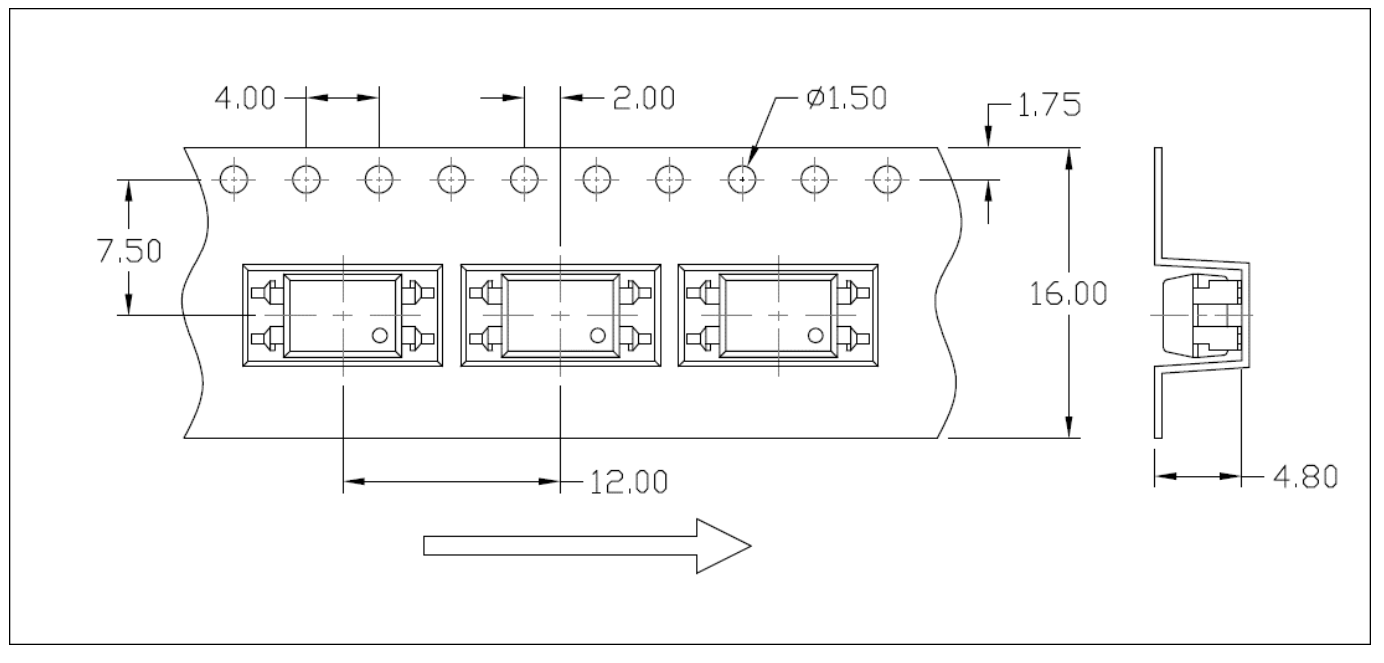


CARRIER TAPE SPECIFICATIONS Dimensions in mm unless otherwise stated)

Option S(T3) & SL(T3)

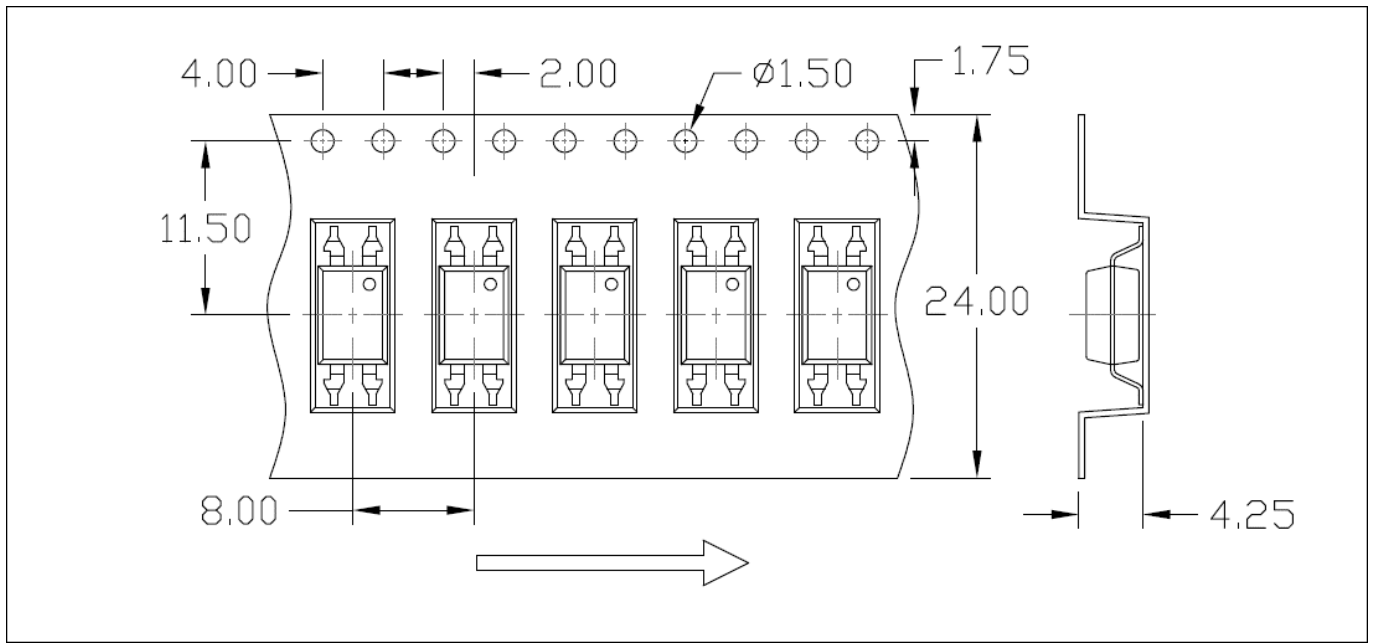


Option S(T4) & SL(T4)

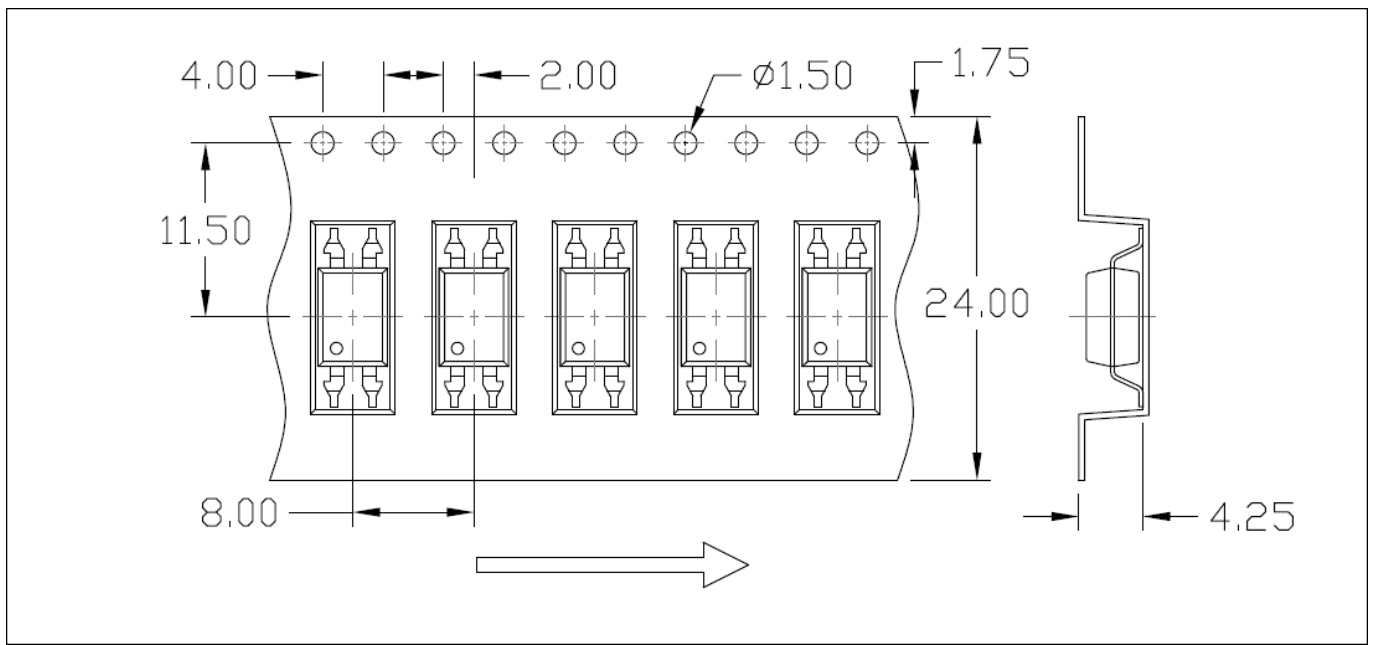


CARRIER TAPE SPECIFICATIONS Dimensions in mm unless otherwise stated)

Option SLM(T1)

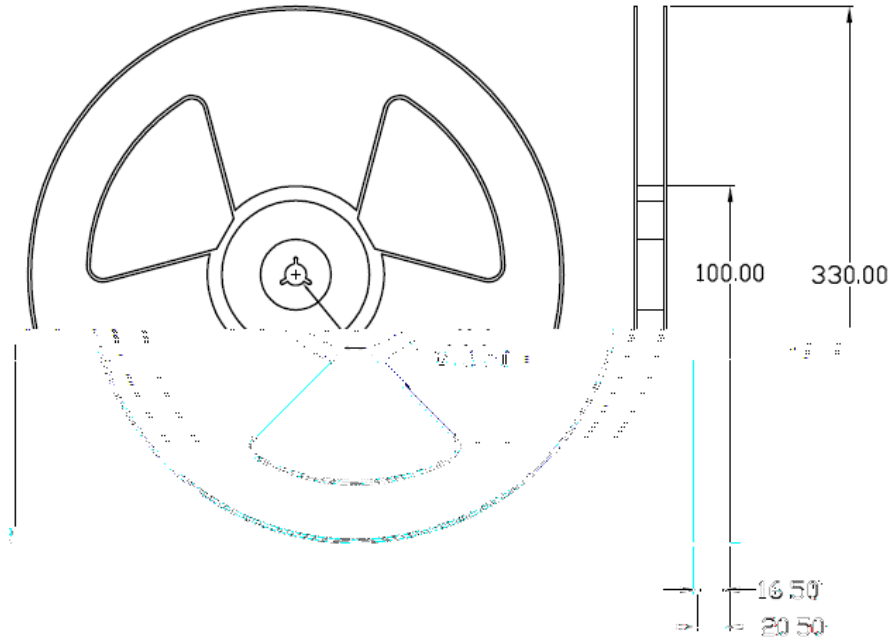


Option SLM(T2)

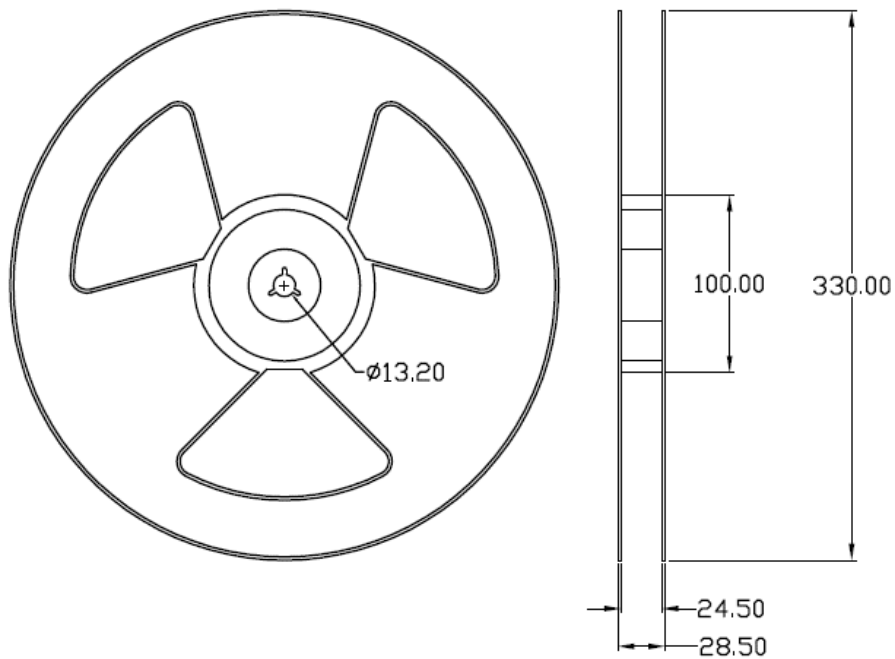


REEL SPECIFICATIONS Dimensions in mm unless otherwise stated)

Option S & Option SL



Option SLM



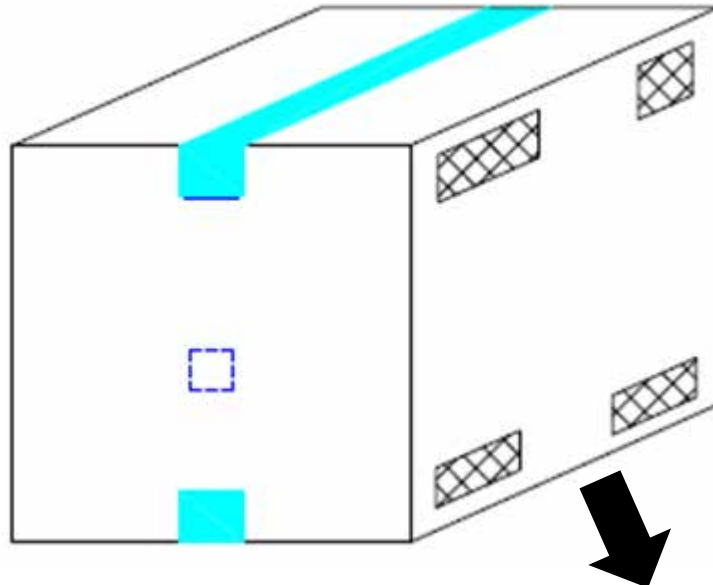


BOX SPECIFICATIONS (Reel Type)

Inner Box

14 14 47

Outer Box



23 14 14



ORDERING AND MARKING INFORMATION

MARKING INFORMATION

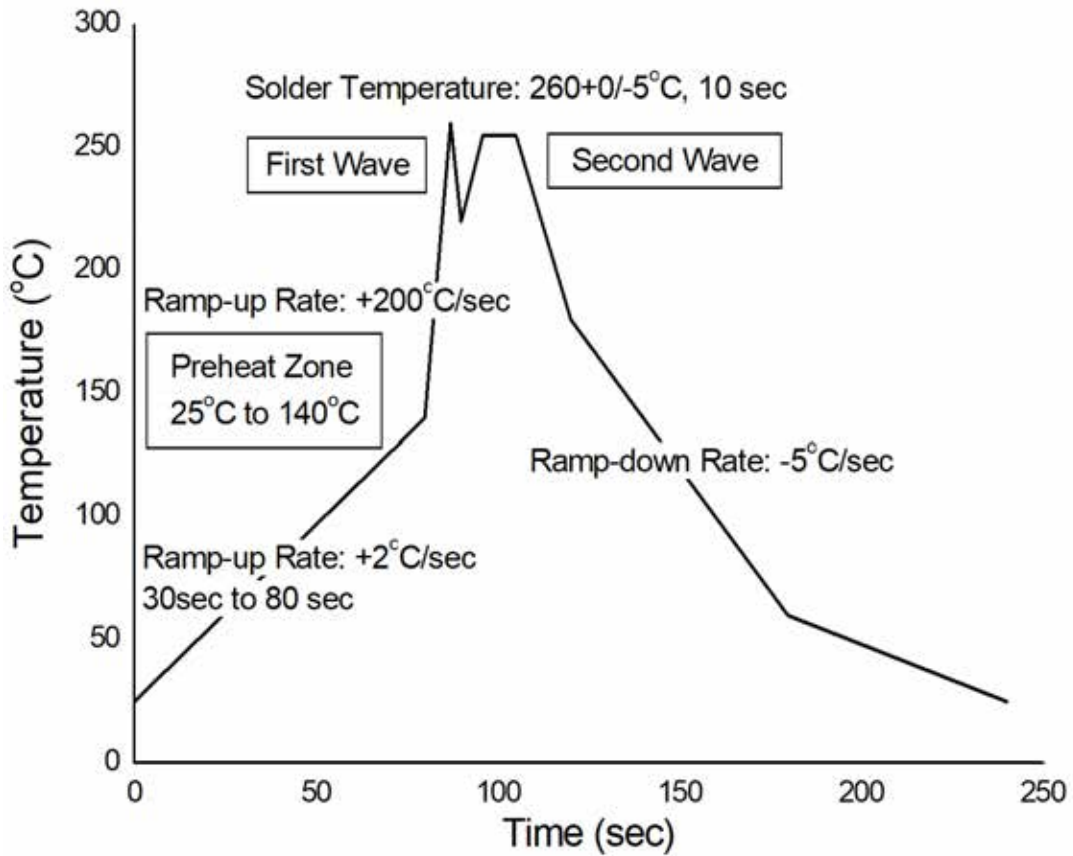
- TD : Company Abbr.
- F : Leadframe Option
- 817 : Part Number
- X : CTR Rank
- V P rp 2 S W L R Q

df C =



TEMPERATURE PROFILE OF SOLDERING

WAVE SOLDERING (JESD22-A111 COMPLIANT)



HAND SOLDERING BY SOLDERING IRON

- ct ct ct ct ct
- ct ct



TD817 Series

DIP4, DC Input, Photo Transistor Coupler