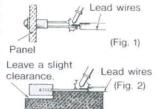
Instructions For Using LEDs (Radial lead types)

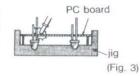
METHOD	SOLDERING CONDITIONS	REMARKS
DIP SOLDERING	Bath temperature : 260 ± 5°C Immersion time : within 5 sec	Solder no closer than 3mm from the base of the package. If using soldering flux, "LONCO RESIN FLUX" is at least recommended.
SOLDERING IRON	Soldening iron: 30W or smaller Temperature at tip of iron: 300°C or lower Soldering time: within 3 sen	 During soldering, take care not to press the tip of iron against the lead. To prevent heat from being transferred directly to the lead, hold the lead with a pair of tweezers while Soldering.

SOLDERING

- When soldering the leads of LEDs in a condition that the package is fixed with a panel(See Fig. 1), be careful not to stress the leads with iron tip.
- When soldering wire to the lead work with a jig(See Fig. 2)to avoid stressing the package.



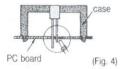
 Similarly, when a jig is used to solder the LED to the PC board, take care as much as possible to avoid stressing the leads. (See Fig. 3)



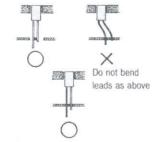
- 4) Repositioning after soldering should be avoided as much as possible. If inevitable, be sure to preserve the soldering conditions with irons stated above:select a best-suited method that assures the least stress to the LED.
- Lead cutting after soldering should be performed only after the LED temperature has returned to normal temperature.

LED MOUNTING METHOD

When mounting the LED by using a case, as shown Fig. 4, ensure that the mounting holes on the PC board match the pitch of the leads correctly-Tolerance of dimensions of the respective components including the LED should be taken into account especially when designing the case, PC board, etc. To prevent pitch misalignment between the leads and board holes, the diameter of the board holes should be slightly larger than the size of the lead. Alternatively, the shpae of the holes should be made oval. (See Fig. 4)



LEAD SIZE	DIAMETER OF BOARD HOLES	
□0.4mm	* φ0.7~1.0mm	
□0.5mm	Ø0.8∼1.0mm	
□0.6mm	φ1.0∼1.3mm	

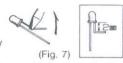


 Use LEDs with stand-off(Fig. 5)or the tube or spacer made of resin (Fig. 6)to position the LEDs.

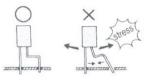


FORMED LEAD

The lead should be bent at a point located at least 2mm away from the package. Bending should be performed with base firmly fixed by means of a jig or radio pliers. (Fig. 7)



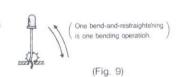
- Forming lead should be carried out prior to soldering and never during or after soldering.
- Form the lead to ensure alignment between the leads and the hole on board, so that stress against the LED is prevented. (Fig. 8)



(Fig. 8)

LEAD STRENGTH

Bend strength
 Do not bend the lead more than twice. (Fig. 9)



Tensile strength
 If the force is 1kg or less, there will be no problem. (At room temperature)

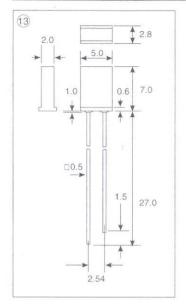


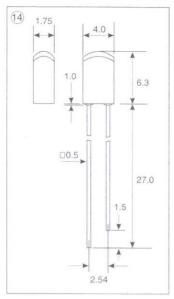
HANDLING PRECAUTIONS

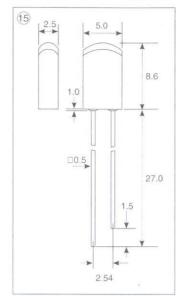
Although rigid against vibration, the LEDs may be damaged or scratched if dropped. So take care when handling.

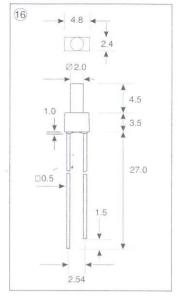
Outline Dimensions

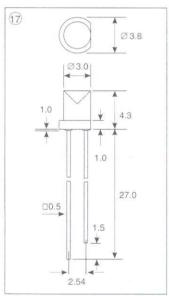
DOWA Sa.

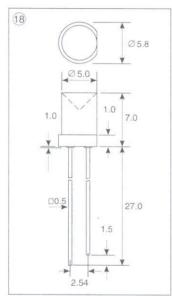


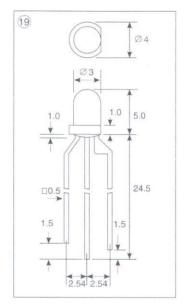


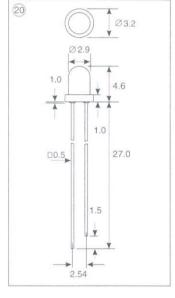


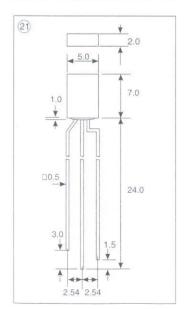


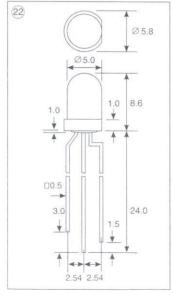


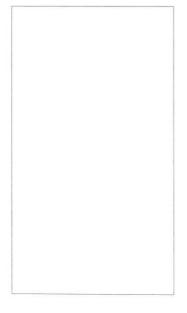


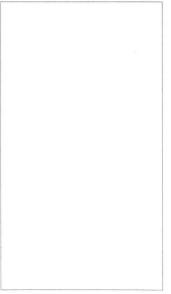












Units: mm

Tolerance : ± 0.25 mm(0.01")

Technical Data

