

Diode Assortment Kits (Rectifier and Zener)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

Diode kits stock rectifier diodes like 1N4007 for one-way current flow and protection, LEDs and zeners for voltage regulation, helping projects manage current direction, spikes and reference voltages.

Key Features

- 1N4001-4007 rectifiers
- Zener diodes 3.3-12 V
- Small-signal and Schottky types
- Voltage and current ratings
- Labelled storage

Typical Uses in the Workshop

- Protect circuits from reverse polarity
- Rectify AC signals
- Clamp voltage spikes across coils
- Provide voltage references

Safe Operation

1. Check the diode polarity (cathode band)
2. Select the rating for the current
3. Place the diode in the correct direction
4. Clamp coils with a flyback diode
5. Test with a multimeter diode setting

SAFETY NOTES

- Check the reverse voltage rating
- Do not exceed the current rating
- Mind the polarity in power circuits
- Keep diodes away from heat
- Store sorted by type

Maintenance & Consumables

- Keep the kit sorted and labelled
- Check for damaged bodies
- Replace with the same type
- Store in the parts cabinet
- Restock popular values

Specification & Buying Notes

Assorted 1N4007, 1N4148 and common zeners cover most projects. Quality diodes meet their ratings; counterfeit batches fail under load.