



- eFuses, or electronic fuses, are integrated circuits that can replace larger conventional fuses or other protection devices such as resettable polymeric fuses.
- Housed in small plastic packages, such as DFN and Flip-chip, they integrate a control circuit and a power switch with low onresistance, connecting the input port to the load.







• E FUSE







• Advantages:

>Due to less external components requirement, it saves board It space. **1**S compact It offers robust protection compare to discrete component based protection circuit. The eFuses are semiconductor ICs and hence offers response during short circuits. rapid It performs well over wide temperature range with changes in its minimal parameters. There is no change in its "ON resistance" even after conditions in the circuit. faulty blocks the reverse It current.





• Disadvantages:

➢It houses more terminals. Basic architecture of efuse consists of three terminals viz. input, output and ground.

>It requires bias current to operate.

➢It is complex in construction. Advancement in semiconductor domain has reduced its size