

General Purpose Rectifier Diode

1N4004A

*This product is marketed only in countries other than Japan.

●Applications

General purpose rectification

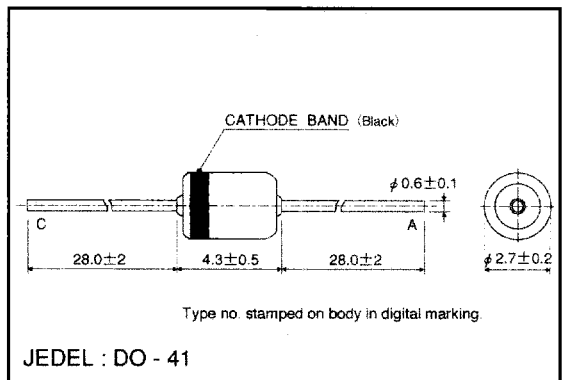
●Features

- 1) Glass sealed envelope (JEDEC: DO-41)
- 2) High reliability
- 3) Nonframmable

●Construction

Silicon diffusion junction

●External dimensions (Units: mm)



●Absolute maximum ratings (Ta=25°C)

| Type | Absolute peak reverse voltage V _{RSM} (V) | Peak reverse voltage V _{RM} (V) | Mean rectifying current I _O (A) (Ta=50°C) | Peak forward surge current* I _{FSM} (A) | Junction temperature T _j (°C) | Storage temperature T _{stg} (°C) |
|---------|---|---|--|---|---|--|
| 1N4004A | 500 | 400 | 1.0 | 30 | 175 | -65~+175 |

* 60HZ, 1

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------------|------|-------|------|------|----------------------|
| Forward voltage | V _F | — | 0.95 | 1.1 | V | I _F =1.0A |
| Reverse current | I _R | — | 0.035 | 10 | μA | V _R =400V |

● Electrical characteristic curves ($T_a=25^\circ\text{C}$)

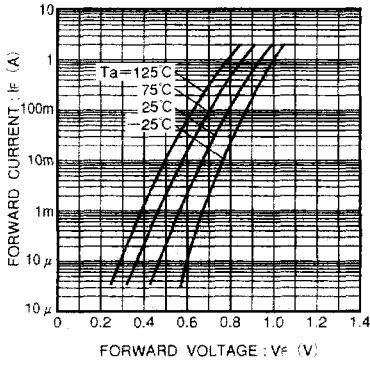


Fig. 1 Forward temperature characteristic

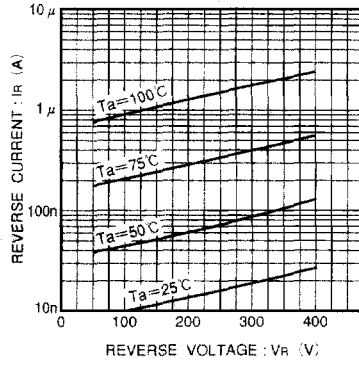


Fig. 2 Reverse temperature characteristic

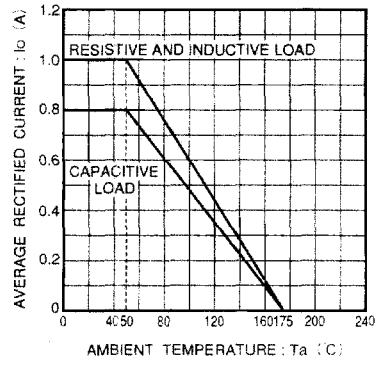


Fig. 3 Mean rectifying current characteristic

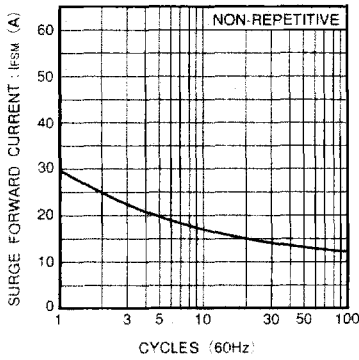


Fig. 4 Surge current characteristic