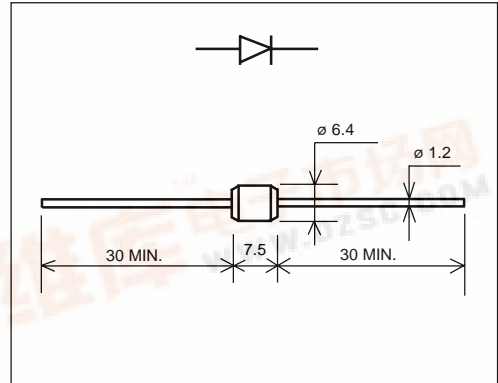


# ERC01(F) (1.8A)

(200V to 400V / 1.8A)

## GENERAL USE RECTIFIER DIODE

### Outline drawings, mm



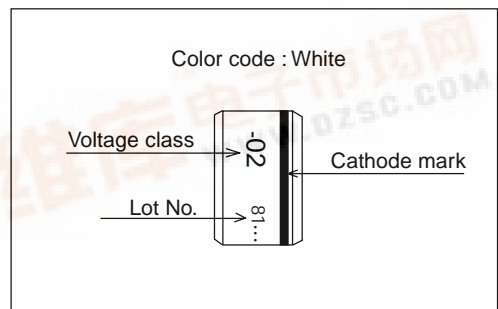
### Features

- Large current
- High reliability

### Applications

- General purpose rectifier applications

### Marking



### Maximum ratings and characteristics

- Absolute maximum ratings

| Item                            | Symbol      | Conditions                       | Rating      |      | Unit        |
|---------------------------------|-------------|----------------------------------|-------------|------|-------------|
|                                 |             |                                  | -02F        | -04F |             |
| Repetitive peak reverse voltage | $V_{RRM}$   |                                  | 200         | 400  | V           |
| Average forward current         | $I_{F(AV)}$ | Resistive load $T_a=40^{\circ}C$ | 1.8(3.0*)   |      | A           |
| Surge current                   | $I_{FSM}$   | Sine wave 10ms                   | 130         |      | A           |
| Operating junction temperature  | $T_j$       |                                  | -40 to +140 |      | $^{\circ}C$ |
| Storage temperature             | $T_{stg}$   |                                  | -40 to +140 |      | $^{\circ}C$ |

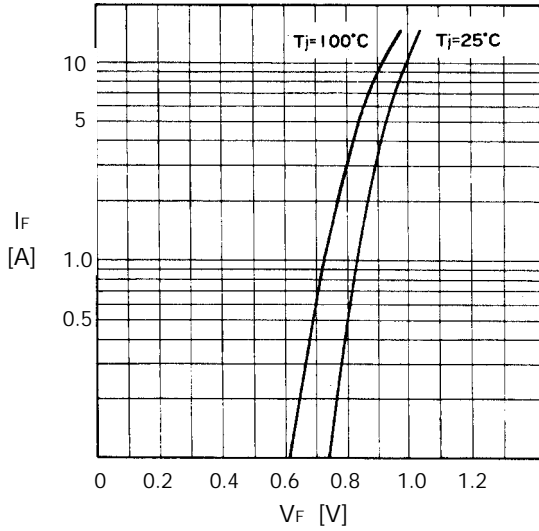
\* With cooling Cu fin both lead (11 x 20 x 20)

- Electrical characteristics ( $T_a=25^{\circ}C$  Unless otherwise specified)

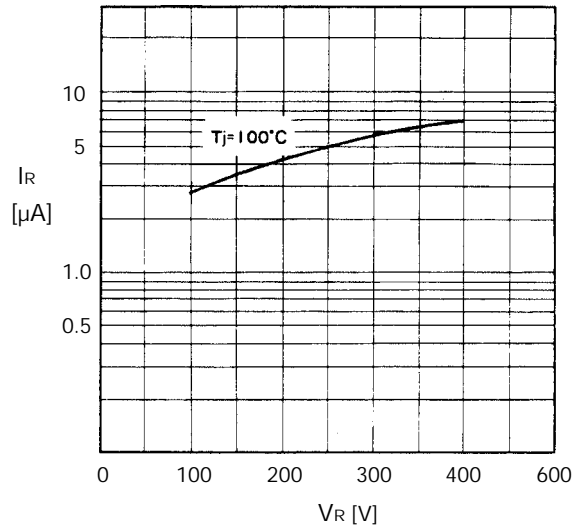
| Item                 | Symbol    | Conditions                      | Max. | Unit    |
|----------------------|-----------|---------------------------------|------|---------|
| Forward voltage drop | $V_{FM}$  | $T_j=25^{\circ}C$ $I_{FM}=4.0A$ | 1.1  | V       |
| Reverse current      | $I_{RRM}$ | $T_j=25^{\circ}C$ $V_R=V_{RRM}$ | 10   | $\mu A$ |

■ Characteristics

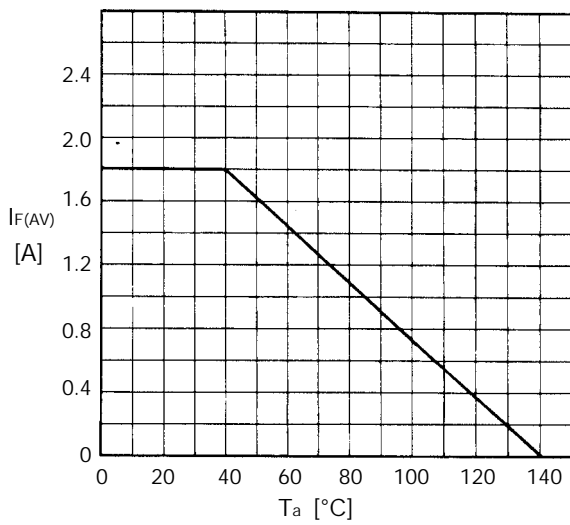
Forward characteristics



Reverse characteristics



Current derating ( $I_{F(AV)}-T_a$ )



Surge capability

