

# ERD07 (1.5A)

(1300V to 1500V / 1.5A )

## FAST RECOVERY DIODE

### Features

- Most suitable for color T.V. damper
- High voltage by mesa design
- High reliability

### Applications

- High speed switching

### Maximum ratings and characteristics

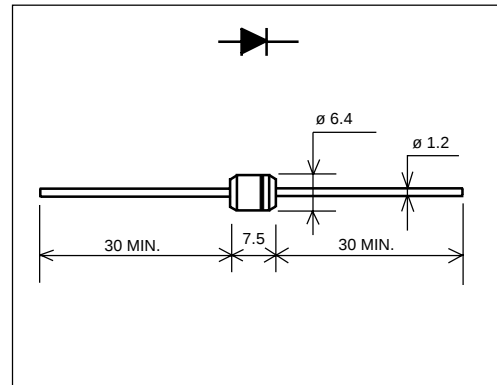
- Absolute maximum ratings

| Item                            | Symbol      | Conditions                                   | Rating      |      | Unit               |
|---------------------------------|-------------|----------------------------------------------|-------------|------|--------------------|
|                                 |             |                                              | -13         | -15  |                    |
| Repetitive peak reverse voltage | $V_{RRM}$   |                                              | 1300        | 1500 | V                  |
| Average forward current         | $I_{F(AV)}$ | Resistive load ( $T_I=125^{\circ}\text{C}$ ) | 1.5         |      | A                  |
| Surge current                   | $I_{FSM}$   | Sine wave 10ms                               | 50          |      | A                  |
| Operating junction temperature  | $T_j$       |                                              | -40 to +150 |      | $^{\circ}\text{C}$ |
| Storage temperature             | $T_{stg}$   |                                              | -40 to +150 |      | $^{\circ}\text{C}$ |

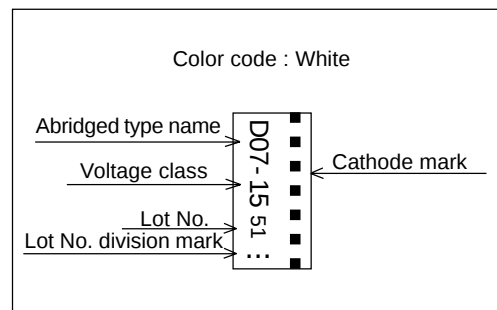
- Electrical characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified )

| Item                  | Symbol    | Conditions                            | Max. | Unit          |
|-----------------------|-----------|---------------------------------------|------|---------------|
| Forward voltage drop  | $V_{FM}$  | $I_{FM}=4\text{A}$                    | 1.2  | V             |
| Reverse current       | $I_{RRM}$ | $V_R=V_{RRM}$                         | 10   | $\mu\text{A}$ |
| Reverse recovery time | $t_{rr}$  | $I_F=0.1\text{A}$ , $I_R=0.1\text{A}$ | 1.5  | $\mu\text{s}$ |

### Outline drawings, mm

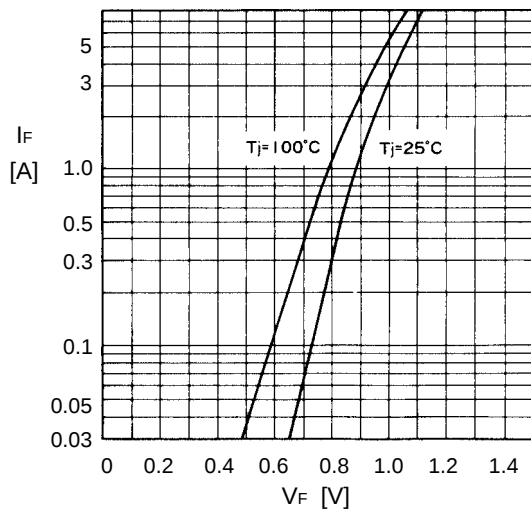


### Marking

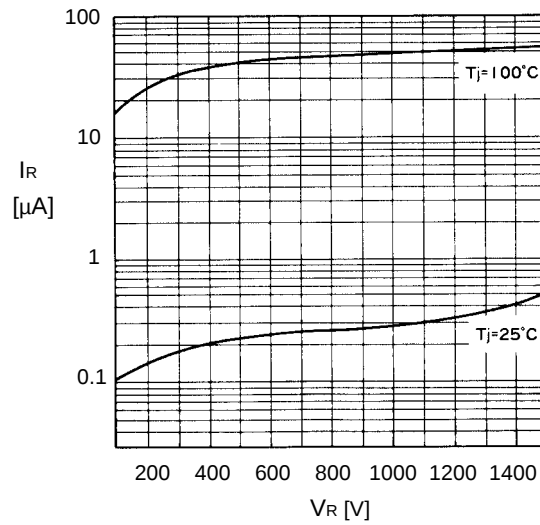
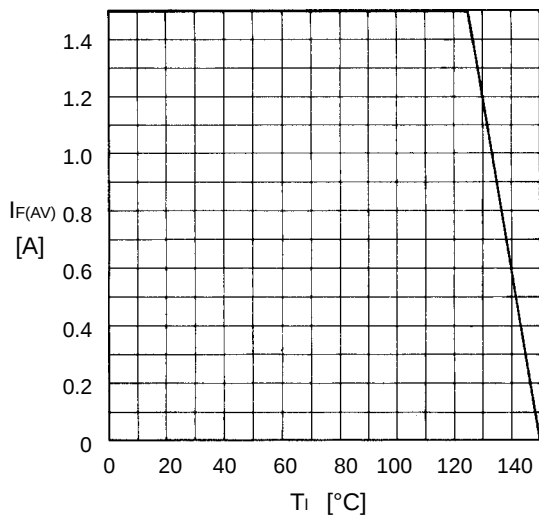


**■ Characteristics**

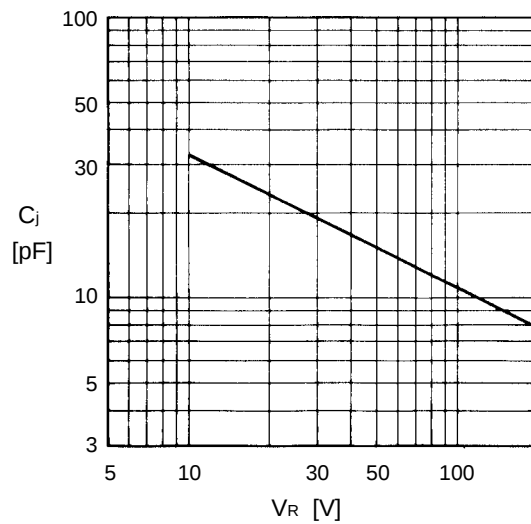
Forward characteristics



Reverse characteristics

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

Junction capacitance characteristics



Surge capability

