



**America Semiconductor**

**Silicon Standard Recovery Diode**

**1N2128A thru  
1N2131AR**

**$V_{RRM} = 50\text{ V} - 600\text{ V}$**

**$I_F = 60\text{ A}$**

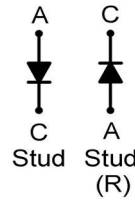
**Features**

- High Surge Capability
- Types up to 600 V  $V_{RRM}$

**Note:**

1. Standard polarity: Stud is cathode.
2. Reverse polarity (R): Stud is anode.
3. Stud is base.

**DO-5 Package**



**Maximum ratings, at  $T_j = 25\text{ °C}$ , unless otherwise specified**

| Parameter  | Symbol     | Conditions                                   | 1N2128A(R) | 1N2129A(R) | 1N2130A(R) | 1N2131A(R) | Unit |
|--|------------|--|------------|------------|------------|------------|------|
| Repetitive peak reverse voltage                      | $V_{RRM}$  |  | 50         | 100        | 150        | 200        | V    |
| RMS reverse voltage                                  | $V_{RMS}$  |  | 35         | 70         | 106        | 140        | V    |
| DC blocking voltage                                  | $V_{DC}$   |  | 50         | 100        | 150        | 200        | V    |
| Continuous forward current                           | $I_F$      | $T_C \leq 150\text{ °C}$                     | 60         | 60         | 60         | 60         | A    |
| Surge non-repetitive forward current, Half Sine Wave | $I_{F,SM}$ | $T_C = 25\text{ °C}$ , $t_p = 8.3\text{ ms}$ | 1050       | 1050       | 1050       | 1050       | A    |
| Operating temperature                                | $T_j$      |  | -65 to 200 | -65 to 200 | -65 to 200 | -65 to 200 | °C   |
| Storage temperature                                  | $T_{stg}$  |  | -65 to 200 | -65 to 200 | -65 to 200 | -65 to 200 | °C   |

**Electrical characteristics, at  $T_j = 25\text{ °C}$ , unless otherwise specified**

| Parameter             | Symbol | Conditions                                  | 1N2128A(R) | 1N2129A(R) | 1N2130A(R) | 1N2131A(R) | Unit          |
|-----------------------|--------|---|------------|------------|------------|------------|---------------|
| Diode forward voltage | $V_F$  | $I_F = 60\text{ A}$ , $T_j = 25\text{ °C}$  | 1.1        | 1.1        | 1.1        | 1.1        | V             |
| Reverse current       | $I_R$  | $V_R = 50\text{ V}$ , $T_j = 25\text{ °C}$  | 10         | 10         | 10         | 10         | $\mu\text{A}$ |
|                       |        | $V_R = 50\text{ V}$ , $T_j = 150\text{ °C}$ | 15         | 15         | 15         | 15         | mA            |

**Thermal characteristics**

|                                     |            |  |      |      |      |      |      |
|-------------------------------------|------------|--|------|------|------|------|------|
| Thermal resistance, junction - case | $R_{thJC}$ |  | 0.65 | 0.65 | 0.65 | 0.65 | °C/W |
|-------------------------------------|------------|--|------|------|------|------|------|



