

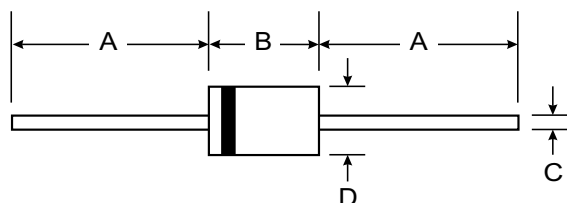
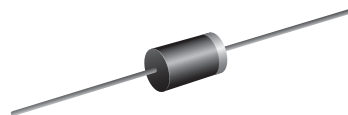
**VOLTAGE RANGE: 400V**  
**CURRENT: 1.0 A**

### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### Mechanical Data

- Case: DO - 15
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.40 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



| DO-15                |       |       |
|----------------------|-------|-------|
| Dim                  | Min   | Max   |
| A                    | 25.40 | —     |
| B                    | 5.50  | 7.62  |
| C                    | 0.686 | 0.889 |
| D                    | 2.60  | 3.60  |
| All Dimensions in mm |       |       |

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic                                                                                       | Symbol               | 1S1829        | Unit |
|------------------------------------------------------------------------------------------------------|----------------------|---------------|------|
| Maximum Recurrent Peak Reverse Voltage                                                               | V <sub>RRM</sub>     | 400           | V    |
| Maximum Average Forward Current<br>0.375"(9.5mm) Lead Length      T <sub>a</sub> = 50 °C             | I <sub>F(AV)</sub>   | 1.0           | A    |
| Peak Forward Surge Current, 8.3ms Single half sine wave<br>Superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>     | 45            | A    |
| Maximum Peak Forward Voltage at I <sub>F</sub> = 1.5 Amps.                                           | V <sub>F</sub>       | 1.2           | V    |
| Repetitive Peak Reverse                                                                              | I <sub>RRM(1)</sub>  | 10            | μA   |
| Current      T <sub>j</sub> = 150 °C                                                                 | I <sub>RRM(2)</sub>  | 400           | μA   |
| Storage Temperature Range                                                                            | T <sub>stg</sub>     | - 40 to + 150 | °C   |
| Junction Temperature Range                                                                           | T <sub>j</sub>       | - 40 to + 150 | °C   |
| Thermal Resistance (Junction to Ambient) DC                                                          | R <sub>th(j-a)</sub> | 100           | °C/W |

#### Notes :

- ( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.  
 ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 V<sub>DC</sub>

