

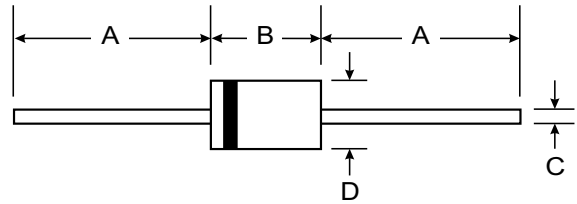
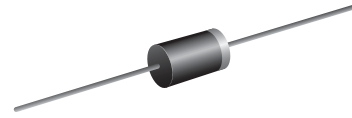
**VOLTAGE RANGE: 400V**  
**CURRENT: 1.0 A**

### 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 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 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>

