

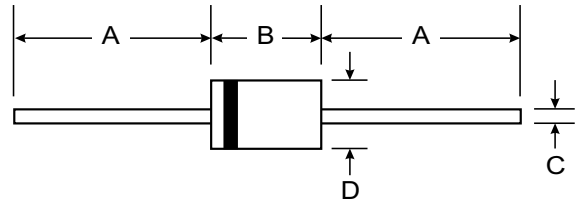
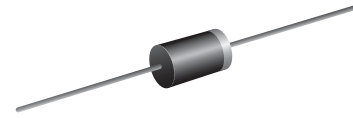
VOLTAGE RANGE: 1000V
CURRENT: 1.0 A

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_A = 25°C unless otherwise specified

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

Characteristic	SYMBOL	1S1830	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length T _a = 50 °C	I _{F(AV)}	1.0	A
Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	45	A
Maximum Peak Forward Voltage at I _F = 1.5 Amps.	V _F	1.2	V
Repetitive Peak Reverse Current T _j = 150 °C	I _{RRM(1)} I _{RRM(2)}	10 400	μA μA
Storage Temperature Range	T _{stg}	- 40 to + 150	°C
Junction Temperature Range	T _J	- 40 to + 150	°C
Thermal Resistance (Junction to Ambient) DC	R _{th(j-a)}	100	°C/W

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}

