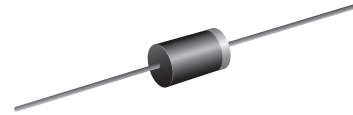


**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 2.0 A**

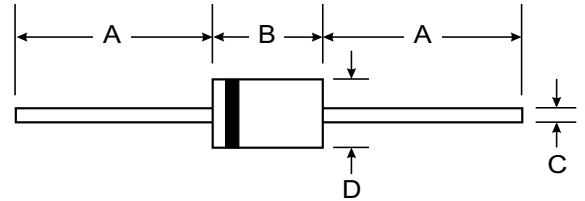


### Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Plastic Material - UL Flammability Classification 94V-0

### Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-0 rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



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	2A01	2A02	2A03	2A04	2A05	2A06	2A07	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) <span style="float: right;">@ T<sub>A</sub> = 55°C</span>	$I_O$	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	65							A
Forward Voltage <span style="float: right;">@ I<sub>F</sub> = 2.0A</span>	$V_{FM}$	1.1							V
Peak Reverse Current <span style="float: right;">@ T<sub>A</sub> = 25°C @ T<sub>A</sub> = 100°C</span>	$I_{RM}$	5.0 200							μA
I <sup>2</sup> t Rating For Fusing	$I^2t$	17.5							A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	$C_j$	40							pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	60							K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +175							°C

Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

