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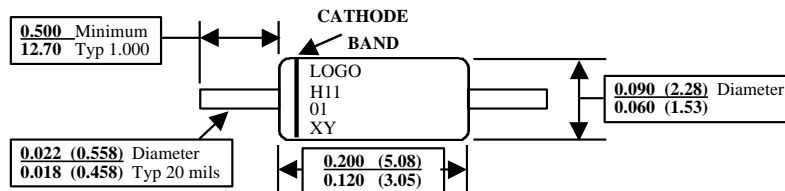
Ultra Low Leakage Diode

General Description

An Ultra Low Leakage Diode in the DO-35 package.

The forward voltage is typically greater than 0.5 volts at 1.0 micro-ampere.

This product is light sensitive, any damage to the body coating will affect the reverse leakage when exposed to light.



* XY = 6 weeks marking date code, X = last digit of the calendar year (Alpha), Y = 6 weeks numeric code.

Typical Forward Voltages	
1.0 uA	----- 530 mV
10 uA	----- 605 mV
100 uA	----- 685 mV
1.0 mA	----- 780 mV
10 mA	----- 895 mV
50 mA	----- 995 mV
100 mA	----- 1.07 V

Absolute Maximum Ratings* $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
W_{IV}	Working Inverse Voltage	15	V
I_F	DC Forward Current (I_F)	150	mA
P_D	Total Power Dissipation at $T_A = 25^\circ\text{C}$ Linear Derating Factor from $T_A = 25^\circ\text{C}$	250 1.67	mW mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance Junction-to-Ambient	300	$^\circ\text{C}/\text{W}$
T_J	Operating Junction Temperature	175	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 to +200	$^\circ\text{C}$

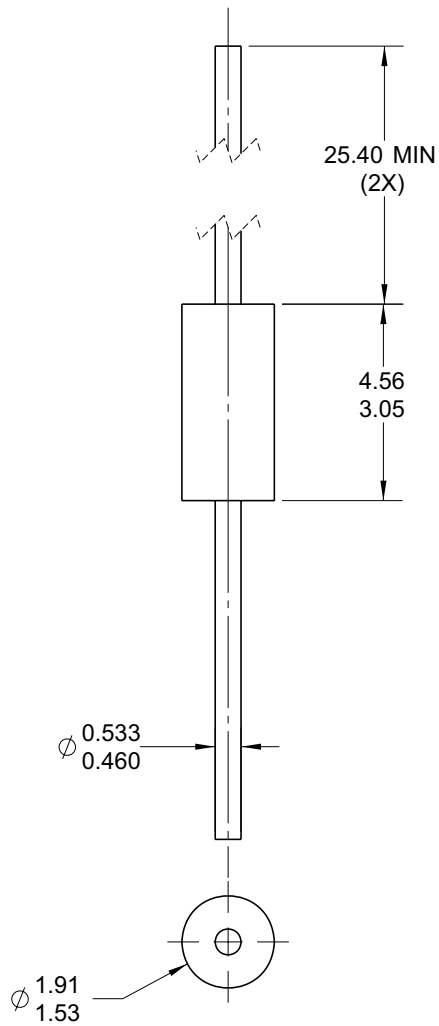
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
B_V	Breakdown Voltage	$I_R = 5.0\mu\text{A}$	20			V
I_R	Reverse Leakage	$V_R = 5.0\text{V}$ $V_R = 15\text{V}$			5.0 15	pA pA
V_F	Forward Voltage	$I_F = 50\text{mA}$			1.1	V
C_T	Diode Capacitance	$V_R = 0\text{V}$, $f = 1.0\text{MHz}$			2.0	pF

Physical Dimension

DO-35



NOTES: UNLESS OTHERWISE SPECIFIED






- A) PACKAGE STANDARD REFERENCE:
JEDEC DO-204, VARIATION AH.
- B) HERMETICALLY SEALED GLASS PACKAGE.
- C) PACKAGE WEIGHT IS 0.137 GRAM.
- D) ALL DIMENSIONS ARE IN MILLIMETERS.
- E) DRAWING FILE NAME: DO35AREV02

Dimensions in Millimeters



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