

1 456A

ABSOLUTE MAXIMUM RATINGS

(T_A = 25°C unless otherwise noted) (Notes 1, 2, 3)

Symbol	Rating	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current	500	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current	Pulse Width = 1.0 s	1.0
		Pulse Width = 1.0 μs	4.0
T _{STG}	Storage Temperature Range	-65 to +200	°C
T _J	Operating Junction Temperature	175	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. These ratings are limiting values above which the serviceability of the diode may be impaired.
2. These ratings are based on a maximum junction temperature of 200°C.
3. These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

THERMAL CHARACTERISTICS

Symbol	Parameter	Max	Unit
P _D	Power Dissipation	500	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	300	°C/W

ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Max	Unit
V _R	Breakdown Voltage	I _R = 5 μA	30	-	V
V _F	Forward Voltage	I _F = 100 mA	-	1.0	V
I _R	Reverse Leakage	V _R = 25 V	-	25	nA
		V _R = 25 V, T _A = 150°C	-	50	μA

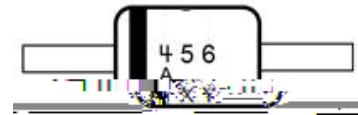
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



AXIAL LEAD
(DO-35)
CASE 017AG

(Color Band Denotes Cathode)

MARKING DIAGRAM



456A = Specific Device Code
XY = Date Code
Band Color: Black

ORDERING INFORMATION

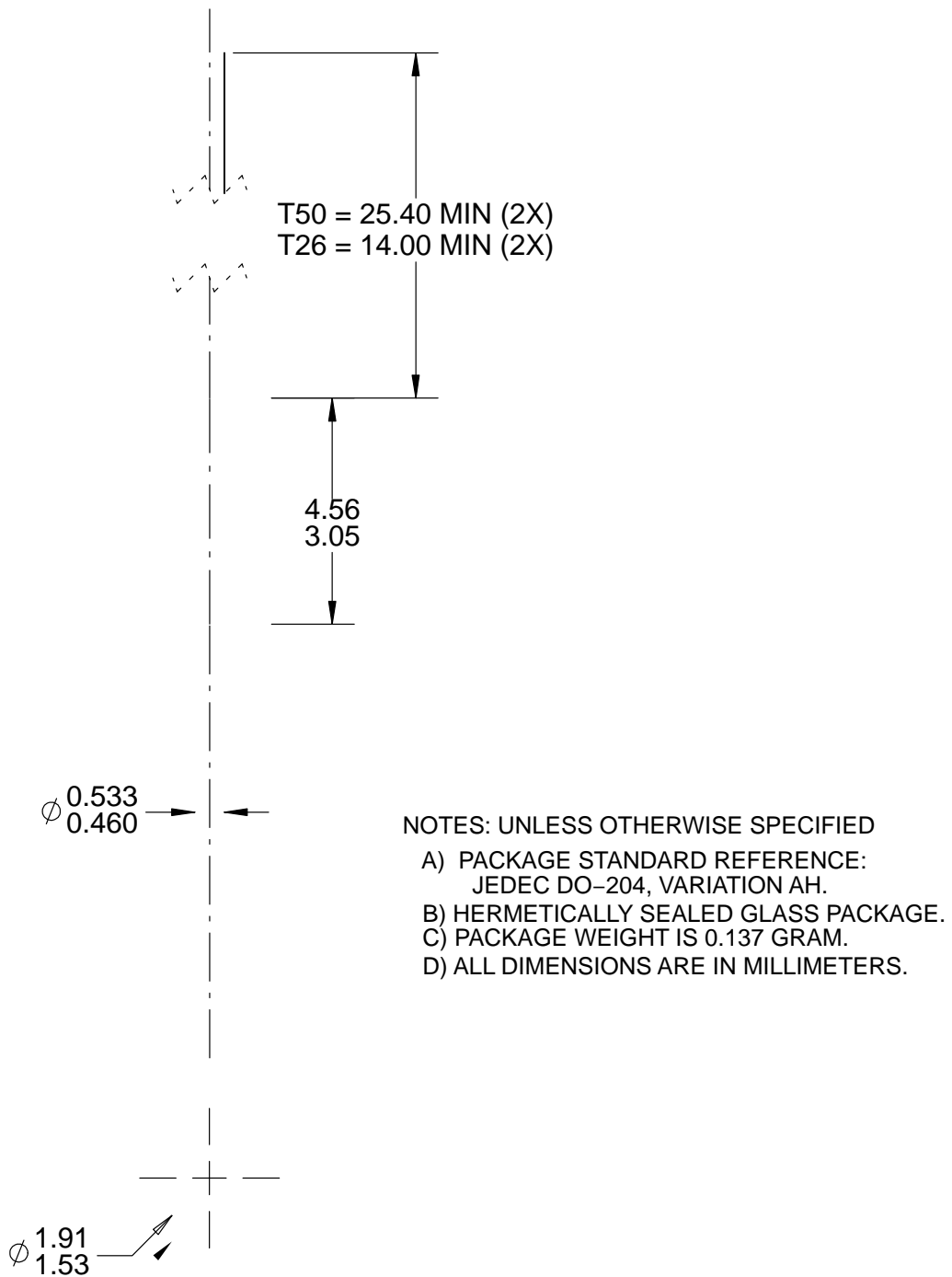
Device	Package	Shipping†
1N456A	DO-35 (Pb-Free)	5,000 Units / Bulk
1N456ATR	DO-35 (Pb-Free)	10,000 Units / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



AXIAL LEAD
CASE 017AG
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