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## SWITCHING DIODE

- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION

Qualified per MIL-PRF-19500/403

### DEVICES

**1N4500**

### QUALIFIED LEVELS

**JAN**  
**JANTX**

### MAXIMUM RATING AT 25°C

Operating Temperature:	-65°C to +175°C
Storage Temperature:	-65°C to +200°C
Surge Current A, sine 1S:	0.5A
Surge Current A, sine 1μS:	4A
Leakage Current: 100nA	75V, T <sub>A</sub> = +25°C

### DC ELECTRICAL CHARACTERISTICS

V <sub>F</sub>				I <sub>R</sub>				V <sub>BR</sub>			
Ambient (°C)	I <sub>F</sub> mA	Min V	Max V	Ambient (°C)	V <sub>R</sub> V(dc)	Min μA	Max nA	Ambient (°C)	I <sub>R</sub> μA	Min V	Max V
25	.250	0.47	0.56	25	75	--	100	25	100	80	--
25	1	0.52	0.60								
25	10	0.64	0.72								
25	20	0.67	0.77								
25	300	--	1.10								

**NOTE:** (1) Derate 2.0mA/dc/°C for T<sub>A</sub> > =25°C

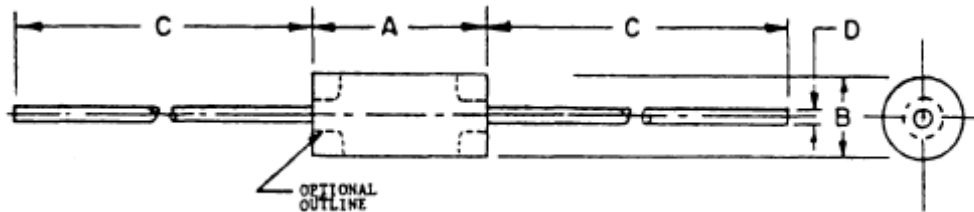
### AC ELECTRICAL CHARACTERISTICS AT 25°C

	Min	Max	Unit
Capacitance @ 0V	--	4.0	pF
I <sub>F</sub> = I <sub>R</sub> = 10mA R <sub>L</sub> = 100 ohms	--	6.0	ns



**DO-35**

**PACKAGE DIMENSIONS**



**NOTES:**

1. Metric equivalents (to the nearest .01mm) are give for general information only and are based upon 1 inch = 25.4mm.
2. Both leads shall be within the specified limits (see 3.3.1).
3. The maximum diameter of dimension B shall apply for dimension A.
4. The minimum diameter for dimension B shall apply over at least .075 (1.91mm) of dimension A.
5. The specified lead diameter applies in the zone between .050 (1.27mm) and 1.00 (25.4mm) from the diode body to the end of the lead. Outside of this zone the lead diameter shall not exceed diameter B.

Ltr	Dimensions				Note
	Inches		Millimeters		
	Min	Max	Min	Max	
A		.160		4.06	
B		.075		1.99	3, 4
C	1.000	1.500	25.40	38.10	2
D	.018	.022	.46	.56	5, 2

**FIGURE 1: Physical dimensions diode: TYPE 1N4500**

**DESIGN DATA**

**Case:** Hermetically sealed glass package per MIL-PRF-19500/403. DO-35 outline.

**Lead Material:** Copper clad steel

**Lead Finish:** Tin / Lead

**Marking:** 70°C/W maximum

**Polarity:** Cathode end is banded.