



# TECHNICAL DATA SHEET

6 Lake Street, Lawrence, MA 01844  
 1-800-446-1158 / (978) 794-1666 / Fax: (978) 689-0803  
 Website: <http://www.microsemi.com>

## SWITCHING DIODE

- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION
- HARD GLASS - TUNGSTEN CONSTRUCTION

Qualified per MIL-PRF-19500/241

### DEVICES

**1N3595-1**

### LEVELS JANS

#### MAXIMUM RATING AT 25°C

Operating Temperature:	-65°C to +175°C
Storage Temperature:	-65°C to +175°C
Surge Current A, sine 1S:	500mA
Surge Current A, sine 1μS:	4A
Total Power Dissipation:	500mW
Operating Current:	150mA, T <sub>A</sub> = +25°C
D.C. Reverse Voltage (VRWM):	125V

#### 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 μA	Ambient (°C)	I <sub>R</sub> μA	Min V	Max V
25	1	0.52	0.70	25	125	-	0.001	-55	100	150	-
25	5	0.60	0.765	150	125	-	3				
25	10	0.65	0.80								
25	50	0.74	0.88								
25	100	0.79	0.92								
25	200	0.83	1.00								

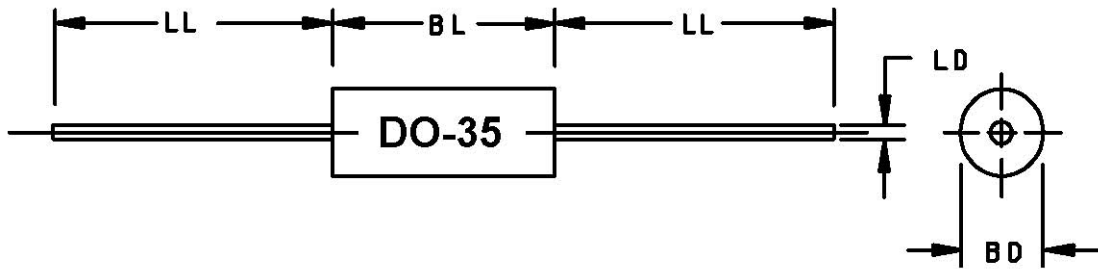
#### AC ELECTRICAL CHARACTERISTICS AT 25°C

	Min	Max	Unit
Capacitance @ 0V	-	8.0	pF
T <sub>RR</sub> @ I <sub>F</sub> = 10mA V <sub>R</sub> = 35V	-	3.0	μsec



DO-35

**PACKAGE DIMENSIONS**



**NOTE:**

1. Dimensions are in inches.
2. Millimeters are given for general information only.
3. In accordance with ASME Y14.5M, diameters are equivalent to  $\Phi$  symbol.

Ltr	Dimensions				Notes
	Inches		Millimeters		
	Min	Max	Min	Max	
BD	.056	.075	1.42	1.91	
BL	.140	.180	3.56	4.57	
LD	.018	.022	0.46	0.56	
LL	1.000	1.500	25.40	38.10	

**DESIGN DATA**

**Case:** Hermetically sealed glass package per MIL-PRF-19500/241 DO-35 outline

**Lead Material:** Copper clad steel

**Lead Finish:** Tin / Lead

**Thermal Impedance ( $Z_{\theta JX}$ ):** 70°C/W maximum

**Polarity:** Cathode end is banded

**FIGURE 1. Physical dimensions - 1N3595-1, 1N3595A-1 (DO-35)**