



TECHNICAL DATA SHEET

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Website: <http://www.microsemi.com>

SWITCHING DIODE

- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION
- SOFT GLASS – DUMET CONSTRUCTION

Qualified per MIL-PRF-19500/241

DEVICES

1N3595-1

LEVELS

JAN
JANTX
JANTXV

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 _A = +25°C
D.C. Reverse Voltage (VRWM):	125V

DC ELECTRICAL CHARACTERISTICS

V _F				I _R				V _{BR}			
Ambient (°C)	I _F mA	Min V	Max V	Ambient (°C)	V _R V (dc)	Min μA	Max μA	Ambient (°C)	I _R 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								

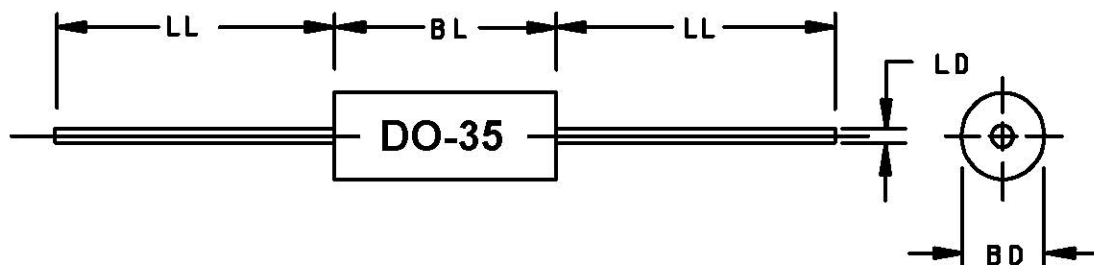
AC ELECTRICAL CHARACTERISTICS AT 25°C

	Min	Max	Unit
Capacitance @ 0V	-	8.0	pF
T _{RR} @ I _F = 10mA V _R = 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 Φ x symbology.

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)