



TECHNICAL DATA SHEET

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SWITCHING DIODE

- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION

Qualified per MIL-PRF-19500/193

DEVICES

1N457

QUALIFIED LEVELS

JAN

MAXIMUM RATING AT 25°C

Operating Temperature:	-65°C to +150°C
Storage Temperature:	-65°C to +175°C
Max operating Current (I_F):	225mA
Total Power Dissipation:	500mW
DC Reverse Voltage (V_{RWM}):	60V

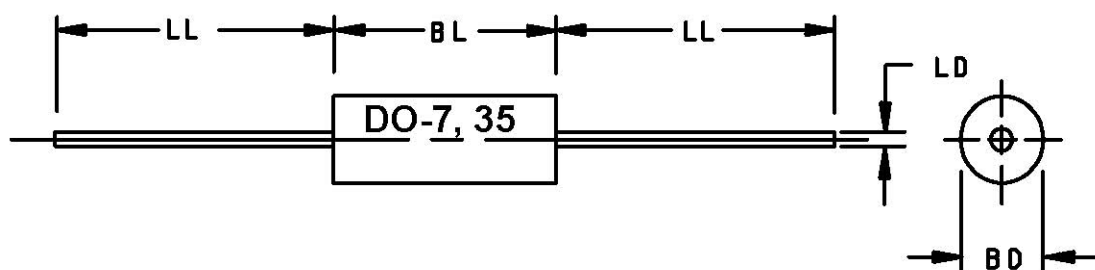
DC ELECTRICAL CHARACTERISTICS

V_F				I_R			
Ambient (°C)	I_F mA	Min V	Max V	Ambient (°C)	I_F V (dc)	Min μA	Max μA
25	100	-	1.0	25	60	-	0.025
-55	100		1.2	25	70	-	1.0
				150	60	-	5.0



DO-35

PACKAGE DIMENSIONS



NOTES:

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.

Type	Ltr	Dimensions			
		Inches		Millimeters	
		Min	Max	Min	Max
(DO-35)	BD	.056	.075	1.42	1.90
	BL	.140	.180	3.56	4.57
	LD	.018	.022	0.46	0.56
	LL	1.000	1.500	25.40	38.10
(DO-7)	BD	.085	.130	2.16	3.30
	BL	.230	.300	5.84	7.62
	LD	.018	.023	0.46	0.58
	LL	1.000	1.500	25.40	38.10

FIGURE 1

Physical dimensions: TYPES: 1N457, 1N458, and 1N459

DESIGN DATA

Case: Hermetically sealed glass package per MIL-PRF-19500/193. 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.

Marking: Blue body coat
 Black digits