

## Low Leakage Diode

1N3595

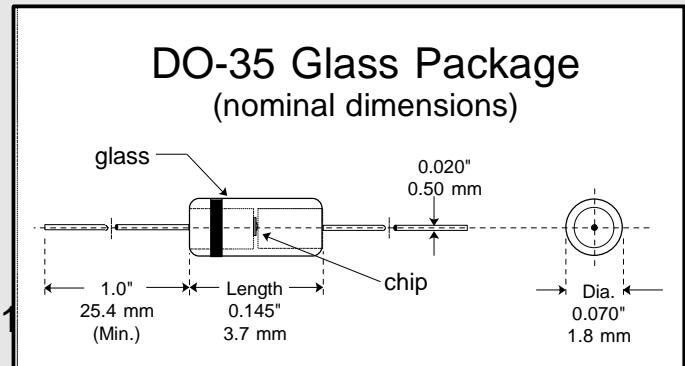
## DO-35 Glass Package

### Applications

Used in instrumentation applications, where low leakage and high voltage isolation are important.

### Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability
- LL-34/35 MELF SMD available
- Full approval to Mil-S-19500/241
- Available up to JANTXV-1 levels
- "S" level screening available to Source Control Drawings using a DO-35 tungsten, hard glass voidless package for Space applications



Maximum Ratings	Symbol	Value		Unit
Peak Inverse Voltage	PIV	150 (Min.)		Volts
Average Rectified Current	I <sub>Avg</sub>	150		mAmps
Continuous Forward Current	I <sub>Fdc</sub>	150		mAmps
Peak Surge Current ( $t_{peak} = 1 \mu\text{sec.}$ )	I <sub>peak</sub>	4.0		Amps
BKC Power Dissipation @ $T_L = 50^\circ\text{C}$ , L = 3/8" from body	P <sub>tot</sub>	500		mWatts
Storage & Operating Temperature Range	T <sub>St &amp; Op</sub>	-65 to +200		° C
Electrical Characteristics @ 25 °C	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ I <sub>F</sub> = 1 mA	V <sub>F</sub>	0.52	0.68	Volts
Forward Voltage Drop @ I <sub>F</sub> = 5 mA	V <sub>F</sub>	0.60	0.75	Volts
Forward Voltage Drop @ I <sub>F</sub> = 10 mA	V <sub>F</sub>	0.65	0.80	Volts
Forward Voltage Drop @ I <sub>F</sub> = 50 mA	V <sub>F</sub>	0.74	0.88	Volts
Forward Voltage Drop @ I <sub>F</sub> = 100 mA	V <sub>F</sub>	0.79	0.92	Volts
Forward Voltage Drop @ I <sub>F</sub> = 200 mA	V <sub>F</sub>	0.83	1.0	Volts
Reverse Leakage Current @ V <sub>R</sub> = 125 V	I <sub>R</sub>		1.0	nA
Reverse Leakage Current @ V <sub>R</sub> = 125 V	I <sub>R</sub>		500 @ 150 °C	nA
Capacitance @ V <sub>R</sub> = 0 V, f = 1mHz	C <sub>T</sub>		8.0	pF
Reverse Recovery Time (note 1)	t <sub>rr</sub>		3.0	μSecs

Note 1: Per Method 4031-B of MIL-STD-750 with I<sub>F</sub> = 10 mA, V<sub>R</sub> = 35V, R<sub>L</sub> = 1.0K Ohms, C = 10 pF

For military parts use the 1N3595-1 number with the appropriate JAN, JTX or JTXV prefix.

The SMD DO-213AA comes in commercial (LL3595) and military versions (1N3595UR-1).

