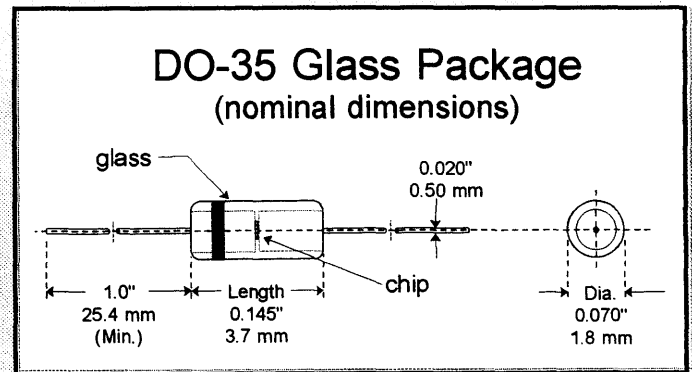


Applications

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	125 (Min.)	Volts
Average Rectified Current		I _{Avg}	150	mAmps
Continuous Forward Current		I _{Fdc}	150	mAmps
Peak Surge Current (t _{peak} = 1 μsec.)		t _{peak}	4.0	Amps
BKC Power Dissipation @ T _L =50 °C, L= 3/8" from body		P _{tot}	500	mWatts
Storage & Operating Temperature Range		T _{St & op}	-65 to +200	°C
Electrical Characteristics @25 °C	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop@ I _F = 1 mA	V _F	0.52	0.68	Volts
Forward Voltage Drop @ I _F = 5 mA	V _F	0.60	0.75	Volts
Forward Voltage Drop@ I _F = 10 mA	V _F	0.65	0.80	Volts
Forward Voltage Drop @ I _F = 50 mA	V _F	0.74	0.88	Volts
Forward Voltage Drop@ I _F = 100 mA	V _F	0.79	0.92	Volts
Forward Voltage Drop @ I _F = 200 mA	V _F	0.83	1.0	Volts
Reverse Leakage Current @ V _R = 125 V	I _R		1.0	nA
Reverse Leakage Current @ V _R = 125 V	I _R		3.0 @ 150°C	μA
Capacitance @ V _R = 0 V, f = 1 mHz	C _T		8.0	pF
Reverse Recovery Time (note 1)	t _{rr}		3.0	μSecs

Note 1: Per Method 4031-B of MIL-STD-750 with $I_F = 10 \text{ mA}$, $V_R = 35\text{V}$, $R_L = 1.0 \text{ Ohms}$, $C = 10 \text{ Pf}$

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).