



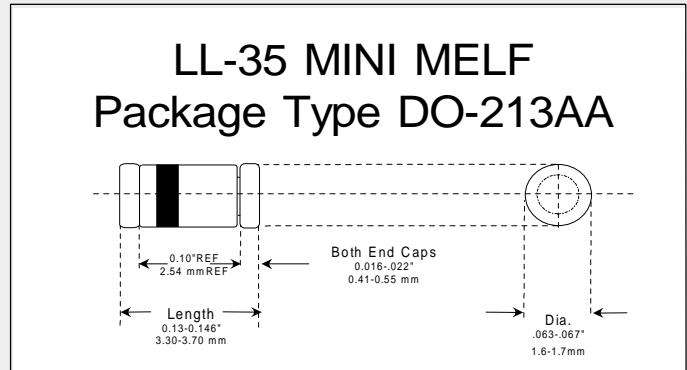
Use Advantages

Used in applications where the highest voltage and current performance of small signal devices are required.

In instrument applications for voltage isolation, pulse clipping and glue logic. Ideal for use in (Medical, Military and Aero/Space).

Features

- Six Sigma quality
- Humidity proof glass
- Metallurgically bonded
- Thermally matched system
- No thermal fatigue
- High surge capability
- Sigma Bond™ plated contacts
- 100% guaranteed solderability



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at $T_{AMB} = 25^\circ\text{C}$	P_{tot}	500	mW
Average Forward Rectified Current at $T_{AMB} = 25^\circ\text{C}$	I_{AV}	200	mAmps
Operating and Storage Temperature Range	$T_{O\&ST}$	-55 to 200	$^\circ\text{C}$
Power derating at $T_{AMB} = 25^\circ\text{C}$	P_{α}	3.0 (Max)	mW/ $^\circ\text{C}$

Detail Specifications

Type	Peak Inverse Voltage (MIN.) @0.1 mA	Maximum Reverse Working Voltage (V_{RMM})	Average Rectified Current (I_O) 25° C	Maximum Rectified Current (I_O) 150° C	Maximum Forward Voltage Drop @ $I_F = 100\text{mA}$ (V_F)	Maximum Reverse Leakage Current (I_R) @ V_{RWM} 25° C	Maximum Reverse Leakage Current 150° C	Maximum Surge Current (I_{FSM}) (NOTE 1)
	Volts	Volts	mAmps	mAmps	Volt	nA	μA	Amps
1N5194	80	70	200	50	1.0	25	5	2
1N5195	200	180	200	50	1.0	25	5	2
1N5196	250	225	200	50	1.0	25	5	2

Note 1: One half cycle, 60 Hz. sine wave.