

1N34A Germanium Diode Datasheet

Optimized for Radio Frequency Response

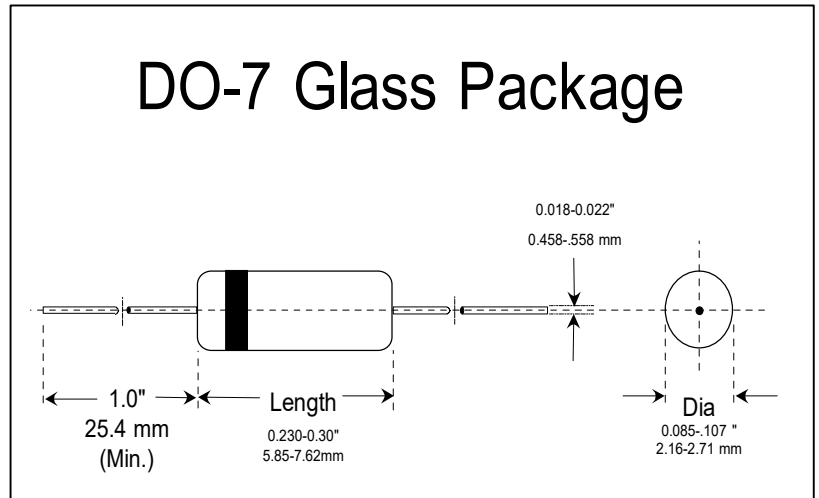
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

Applications

- AM/FM detectors
- Ratio detectors
- FM discriminators
- TV audio detectors
- RF input probes
- TV video detectors

Features

- Lower leakage current
- Flat junction capacitance
- High mechanical strength
- At least 1 million hours MTBF
- BKC's Sigma-Bond™ plating for problem free solderability



Absolute Maximum Ratings at $T_{amb} = 25^{\circ}\text{C}$

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage (Repetitive), Measured @ $I_R = 1 \text{ mA}$	PIV	**	65	Volts
Peak Forward Surge Current Non-Repetitive, $t = 1 \text{ Second}$	I_{FSM}		0.5	Amps
Peak Forward Surge Current Repetitive	I_{FSR}		200	mA
Average Rectified Forward Current	I_O		50	mA
Operating and Storage Temperatures	$T_{J\&STG}$	-55	+75	$^{\circ}\text{C}$

Electrical Characteristics at $T_{amb} = 25^{\circ}\text{C}$

Parameter	Test Conditions	Symbols	Min.	Max.	Units
Forward Voltage Drop	$I_F = 5.0 \text{ mA}$	V_F		1.0	Volts
Reverse Leakage	$V_R = 10 \text{ Volts}$	I_R		30	μA
	$V_R = 50 \text{ Volts}$			500	μA
Breakdown Voltage	$I_r = 1.0 \text{ mA}$	PIV	65		Volts