

Gold Bonded**1N34A****BKC****Germanium Diodes***Optimized for Radio Frequency Response*

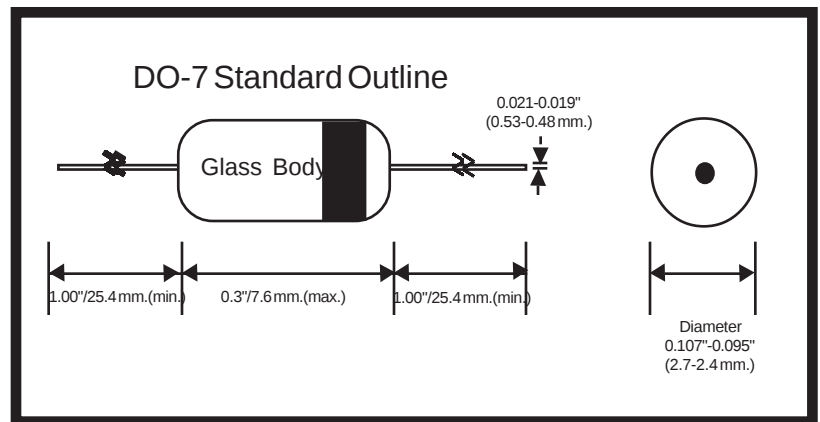
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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	**	60	Volts
Reverse Voltage @ $I_R = 250\text{ }\mu\text{A}$	V_R	60		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.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 1.0\text{ mA}$	V_F		0.5	1.0	Volts
	$I_F = 5.0\text{ mA}$			0.7	1.0	
Reverse Leakage	$V_R = 10\text{ Volts}$			20	100	
	$V_R = 20\text{ Volts}$	I_R		90	300	μA
	$V_R = 30\text{ Volts}$			300	400	
Junction Capacitance	$f = 1\text{ MHz}, V_R = 1\text{ volt}$	C_J			1.0	pF
Reverse Recovery Time	t_{rr} ($I_F = 10\text{ mA. to } I_R = 60\text{ mA., } R = 100\text{ Ohm}$)	τ	--	150		nSec

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