Gold Bonded **1N60A** Germanium Diodes

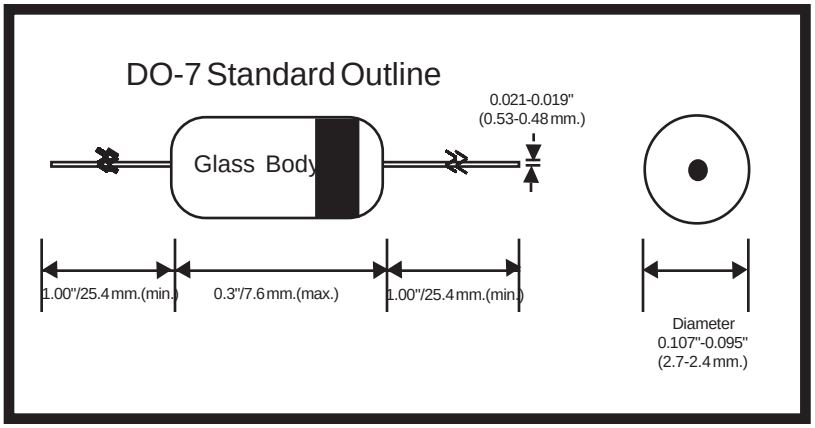
BKC

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 °C

Parameter	Symbols	Min.	Max.	Units
Peak Inverse Voltage (Repetitive), Measured @ I_R = 1 mA	PIV	**	40	Volts
Reverse Voltage @ I_R = 250 µA	V_R	40		Volts
Peak Forward Surge Current Non-Repetitive, t = 1 Second	I_{FSM}		0.2	Amps
Peak Forward Surge Current Repetitive	I_{FSR}		50	mA
Average Rectified Forward Current	I_O		50	mA
Operating and Storage Temperatures	$T_{J\ \&\ STG}$	-55	+75	°C

Electrical Characteristics at T_{amb} = 25 °C

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	I_F = 10mA	V_F		1.0	1.5	Volts
	I_F = 30 mA			2.0	3.2	
Reverse Leakage	V_R = 10 Volts	I_R		20	135	µA
	V_R = 20 Volts			90	450	
	V_R = 30 Volts			300	1100	
Junction Capacitance	f = 1MHz, V_R = 1 volt	C_J			1.0	pF
Reverse Recovery Time	trr (If = 10 mA. to Ir = 60 mA.,R = 100 Ohm)	τ	--	500		nSec

BKC Semiconductors Inc.

6 Lake St · Lawrence, MA · 01841 · tel: (978) 681-0392 · fax: (978) 681-9135