

Gold Bonded**AA143****Germanium Diodes***Optimized for Radio Frequency Response*

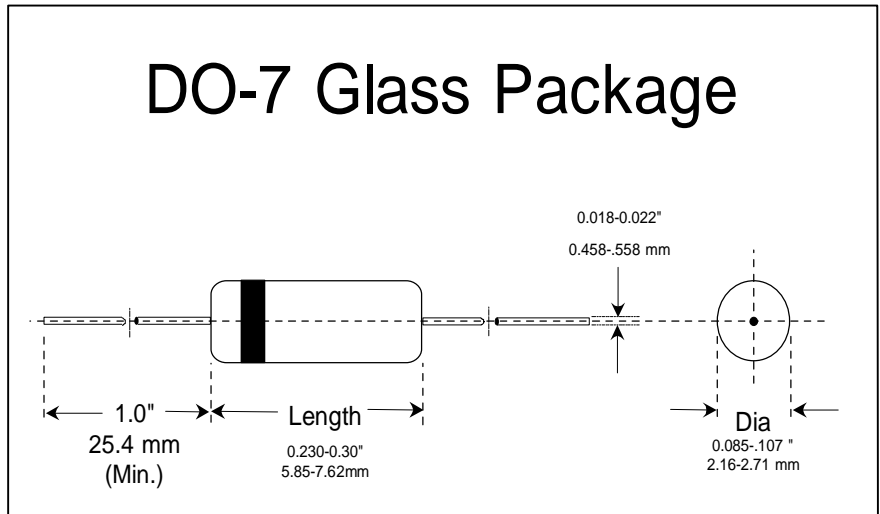
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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	PIV	**	25	Volts
Surge Current, $t = 1$ Second	I_{FSM}		0.5	Amps
Average Rectified Forward Current	I_O		40	mA
Peak Operating Current	I_{OS}		325	mA
Operating and Storage Temperatures	$T_{J\&STG}$	-65	+85	$^{\circ}\text{C}$

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

Parameter	Test Conditions	Symbols	Min.	Typ.	Max.	Units
Forward Voltage Drop	$I_F = 2.0$ mA	V_F	0.29		0.33	Volts
Forward Voltage Drop	$I_F = 15$ mA	V_F	***		0.50	Volts
Breakdown Voltage @ $I_R = 0.1$ mA		PIV	25			Volts
Reverse Leakage	$V_R = 50$ Volts	I_R		**	100	μA
Junction Capacitance	$f = 1\text{MHz}$, $V_R = 3$ volts	C_J		1.2		pF
Reverse Recovery Time	$I_F = 2\text{mA}$, $I_R = 0.2$ mA			T_{rr}	70	nSec