

Gold Bonded

AA143

Germanium Diodes

Optimized for Radio Frequency Response

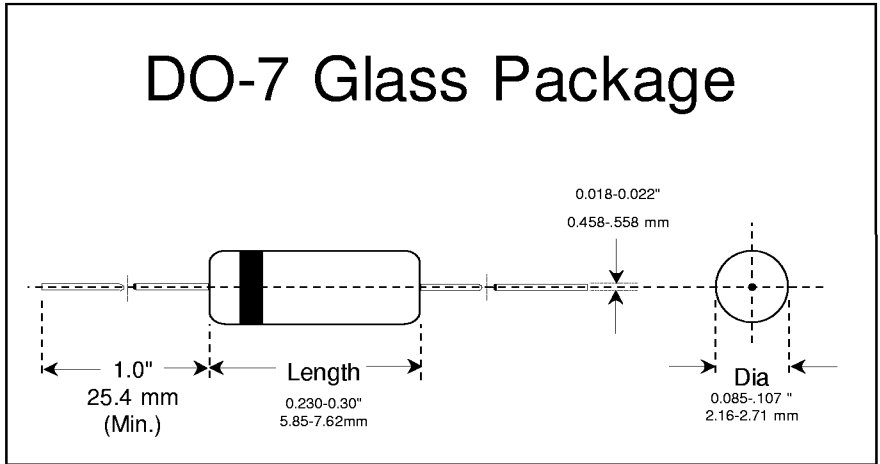
Can be used in many AM, FM and TV-IF applications, replacing point contact devices.

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

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

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



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