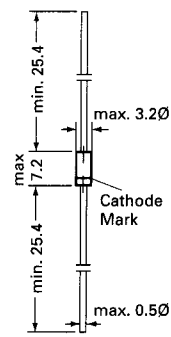


1N 60 P, 1N 60 S
POINT CONTACT GERMANIUM DIODE

Point Contact Germanium Diode

1N 60 is a point contact diode employing N-form Germanium and gives an efficient and excellent linearity when used in TV image detection, FM detection, radio AM detection, etc.



Glass case JEDEC DO-7

Dimensions in mm

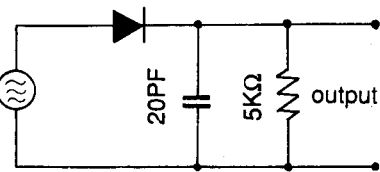
Absolute Maximum Ratings (T_a = 25 °C)

	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	45	V
Reverse Voltage dc	V _R	20	V
Peak Forward Current	I _{FM}	150	mA
Average Rectified Output Current	I _O	50	mA
Surge Forward Current	I _{surge}	500	mA
Junction Temperature	T _j	75	°C
Storage Temperature Range	T _s	-55 to + 75	°C

Characteristics (1N 60 P)

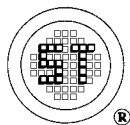
	Symbol	Test condition (T _a 25 ± 2 °C)	Min.	Typ.	Max.	Units
Forward Current	I _F	V _F = 1V	4	-	-	mA
Reverse Currents	I _R	V _R = 10V	-	-	50	μA
	I _R	-	-	-	100	μA
Junction Capacitance C	-	f = 1MHz, V = -1V	-	-	1	PF
Rectification efficiency	η	V _i = 2Vrms, =5KΩ C = 20PF, f = 40 MHz	55	-	-	%

Pair Δ I_F ≤ 6 mA at 1V, Δ I_R ≤ 20 μA at 10V



Input 2Vrms

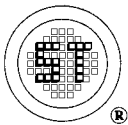
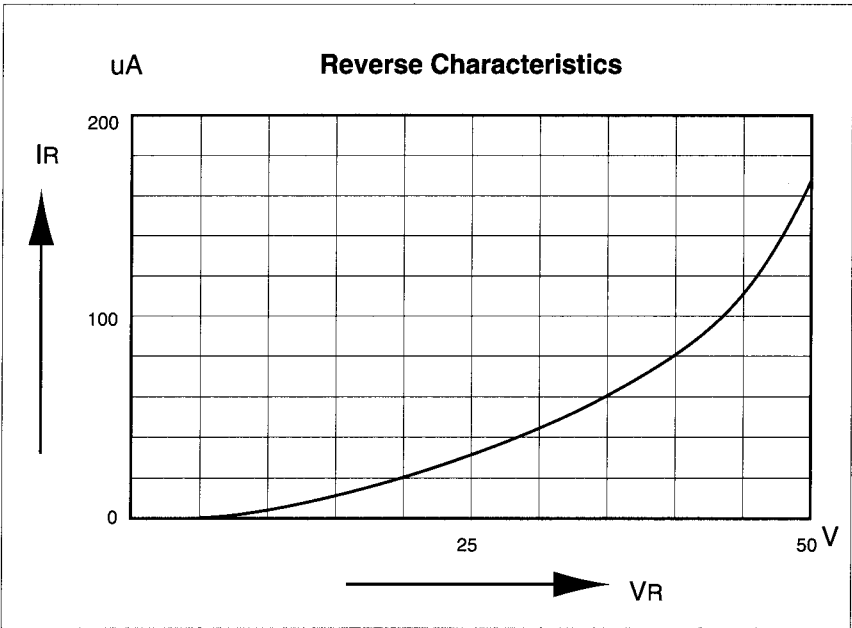
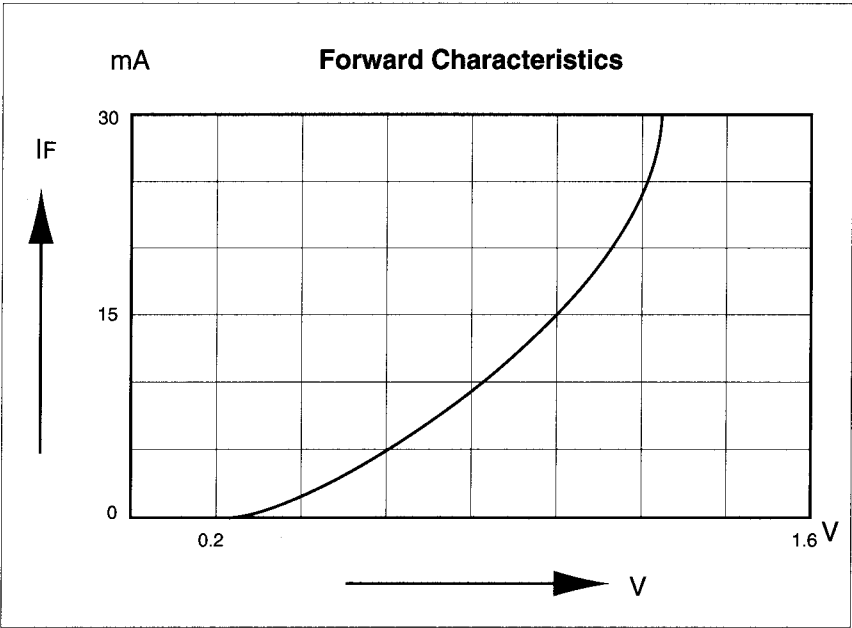
Rectification Efficiency Measurement Circuit



SEMTECH ELECTRONICS LTD.
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1N 60 P, 1N 60 S
POINT CONTACT GERMANIUM DIODE



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