#### **Features**

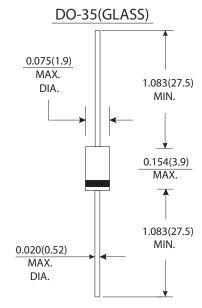
- · Metal silicon junction, majority carrier conduction
- · High current capability, Low forward voltage drop
- · Extremely low reverse current IR
- · Ultra speed switching characteristics
- · Small temperature coefficient of forward characteristics
- · Satisfactory Wave detection efficiency
- · For use in RECORDER, TV, RADIO, TELEPHONE as detectors, super high speed switching circuits, small current rectifier

### Mechanical Data

· Case : DO-35 glass case

· Polarity: Color band denotes cathode end

· Weight : Approx. 0.13 gram



Dimensions in inches and (millimeters)

## Absolute Ratings (Limiting Values)

Symbols	Parameters		Value		Units
Symbols			1N60	1N60P	UTILIS
VRRM	Zenerepetitive Peak Reverse Voltage		40	45	Volts
lF	Forward Continuous Crrent	TA=25 ℃	30	50	mA
lfsm	Peak Forward Surge Current(t=1S)		150	500	mA
Tstg/TJ	Storage junction Temperature Range		-65 to+125		$^{\circ}$
TL	Maximum Lead Temperature for soldering 10S at 4mm from Case		23	°C	

### **Electrical characteristics**

Symbols	Parameters	Test Conditions		Value			Units	
Jyllibols				Min	Тур.	Max.	Offics	
VF	Forward Voltage	IF=1mA	1N60		0.32	0.5	Volts	
			1N60P		0.24	0.5		
		IF=30mA	1N60		0.65	1.0		
		IF=200mA	1N60P		0.65	1.0		
lr	Reverse Current	VR=15V	1N60		0.1	0.5	μΑ	
			1N60P		0.5	1.0		
C1	Junction Capacitance	VR=1V f=1MHz	1N60		2.0			
		VR=10V f=1MHz	1N60P		6.0		рF	
η	Detection Effcienc(See diagram 4)	VI=3V f=30MHz CL=10pF RL=3.8kΩ			60		%	
trr	Revese Recovery time	IF=IR=1mA Irr=1mA RC=100Ω				1	ns	
Reja	Junction Amblent Thermal Resistance				400		°C/W	

# **RATINGS AND CHARACTERISTIC CURVES 1N60P**

FIG.1-FORWARD CURRENT VERSUS FORWARD VALTAGE(TYPICAL VALUES)

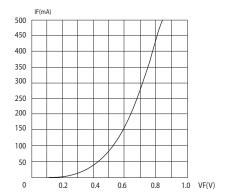


FIG.2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

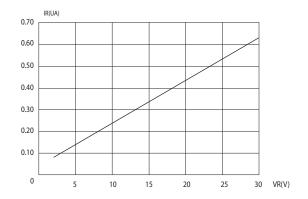


FIG.3-JUNCTION CAPACITANCE VERSUS CONTINUOUS REVERSE APPLIED VOLTAGE

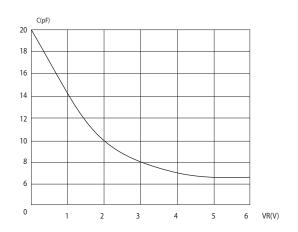


FIG.4-DETECTION EFFICIENCY MEASUREMENT CIRCUIT

