1N60 THRU 1N60P

SMALL SIGNAL SCHOTTKY DIODE

Reverse Voltage - 40 to 45 Volts Forward Current - 0.03 / 0.05 Ampere

FEATURES

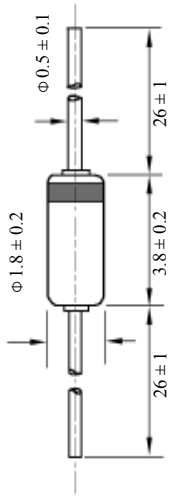
- Metal-on-silicon junction, majority carrier conduction
- High current capability, Low forward voltage drop
- Extremely low reverse current Ir
- Ultra speed switching characteristics
- Small temperature coefficient of forward characteristics
- Satisfactory Wave detection efficiency
- For use in RECORDER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

MECHANICAL DATA

Case: DO-35 glass case
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.13 grams

RoHS Compliant

DO-35



All Dimensions in mm

ABSOLUTE RATINGS(LIMITING VALUES)

Symbols	Parameters		Value		Units
			1N60	1N60P	
V_{RRM}	Repetitive Peak Reverse Voltage		40	45	Volts
I_F	Forward Continuous Current	T_A=25℃	30	50	mA
I_{FSM}	Peak Forward Surge Current(t=1S)		150	400	mA
T_{STG}/T_J	Storage and junction Temperature Range		−65 to+125		℃
T_L	Maximum Lead Temperature for Soldering during 10S at 4mm from Case		230		℃

ELECTRICAL CHARACTERISTICS

Symbols	Parameters	Test Conditions		Value			Units
				Min.	Typ.	Max.	
V_F	Forward Voltage	I_F=1mA	1N60		0.32	0.5	Volts
			1N60P		0.24	0.5	
		I_F=30mA	1N60		0.65	1.0	
		I_F=200mA	1N60P		0.65	1.0	
I_R	Reverse Current	V_R=15V	1N60		1.0	5.0	μA
			1N60P		5.0	10.0	
C_J	Junction Capacitance	V_R=1V f=1MHz	1N60		2.0		pF
		V_R=10V f=1MHz	1N60P		6.0		
η	Detection Efficiency(See diagram 4)	V_I=3V f=30MHz C_L=10pF R_L=3.8k Ω			60		%
t_{rr}	Reverse Recovery time	I_F=I_R=1mA Irr=1mA Rc=100 Ω				1	ns
$R_{\theta JA}$	Junction Ambient Thermal Resistance				400		℃/W

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RATINGS AND CHARACTERISTIC CURVES

1N60

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

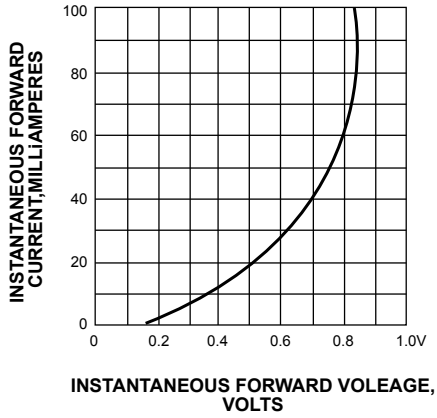


FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

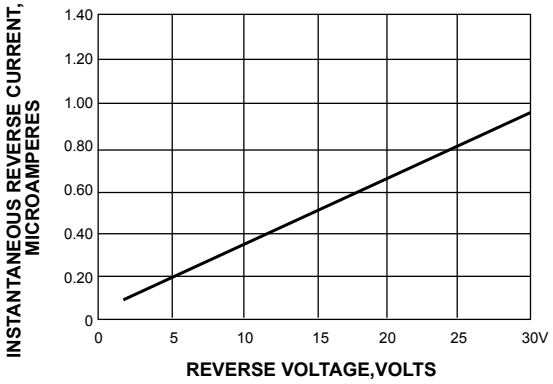
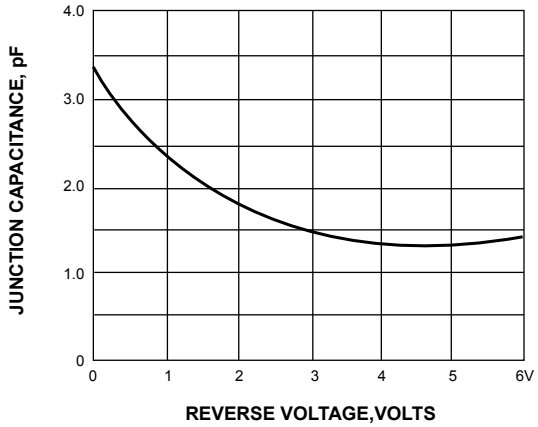


FIG. 3-JUNCTION CAPACITANCE VERSUS CONTINOUS REVERSE APPLIED VOLTAGE



1N60P

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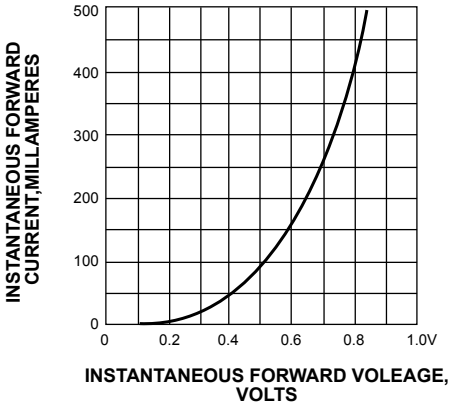
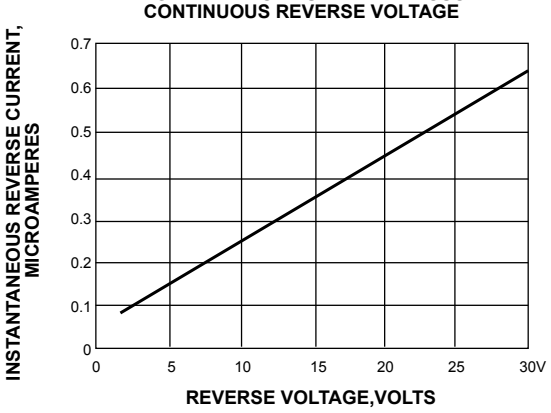


FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE



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