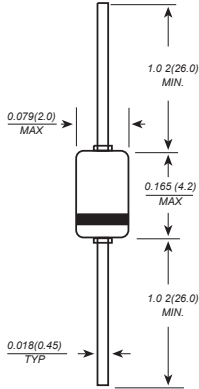


# 1N60 THRU 1N60P

## SMALL SIGNAL SCHOTTKY DIODES

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

### DO-35(GLASS)



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension

### MECHANICAL DATA

**Case:** DO-35 glass case

**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.005 ounce, 0.14 grams

### ABSOLUTE RATINGS

Parameters	SYMBOLS	Value		UNITS
		1N60	1N60P	
Repetitive peak reverse voltage	$V_{RRM}$	40	45	V
Forward continuous current TA=25°C	$I_F$	30	50	mA
Peak forward surge current(t=1s)	$I_{FSM}$	150	500	mA
Storage and junction temperature range	$T_J, T_{STG}$	-65 to +125		°C
Maximum lead temperature for soldering during 10s at 4mm from case	$T_L$	230		°C

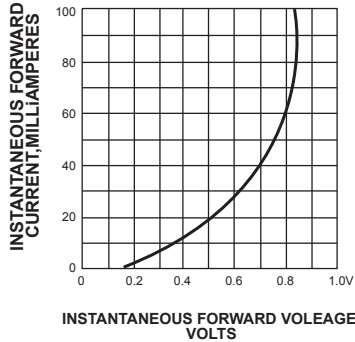
### ELECTRICAL CHARACTERISTICS

Parameters	SYMBOLS	Test conditions	Value			UNITS
			Min.	Typ.	Max.	
Forward voltage	$V_F$	$I_F=1mA$	1N60	0.32	0.5	V
			1N60P	0.24	0.5	
		$I_F=30mA$	1N60	0.65	1.0	
			1N60P	0.65	1.0	
Reverse current	$I_R$	$V_R=15V$	1N60	0.1	0.5	μA
			1N60P	0.5	1.0	
Junction capacitance	$C_J$	$V_R=1V f=1MHz$	1N60	2.0		pF
		$V_R=10V f=1MHz$	1N60P	6.0		
Detection efficiency	$\eta$	$V_F=3V f=30MHz C_L=10pF R_L=3.8K\Omega$		60		%
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA I_{rr}=1mA R_c=100\Omega$			1	ns
Thermal resistance, junction to ambient	$R_{\theta JA}$			400		°C/W

# RATINGS AND CHARACTERISTIC CURVES 1N60 THRU 1N60P

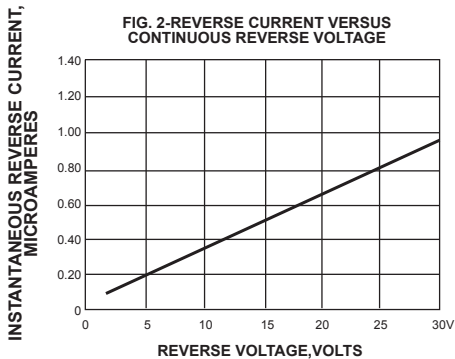
## 1N60

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



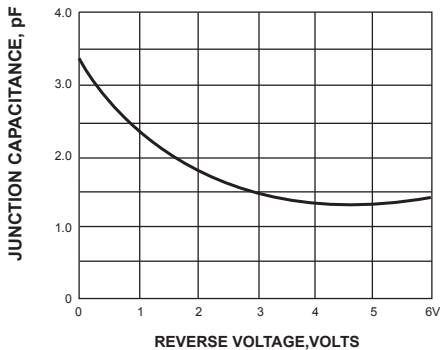
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE



REVERSE VOLTAGE, VOLTS

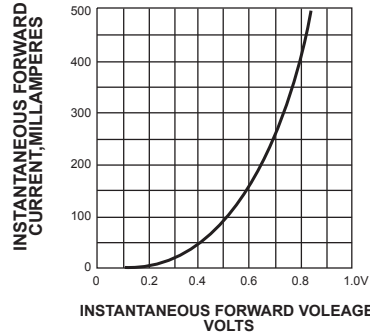
FIG. 3-JUNCTION CAPACITANCE VERSUS CONTINUOUS REVERSE APPLIED VOLTAGE



REVERSE VOLTAGE, VOLTS

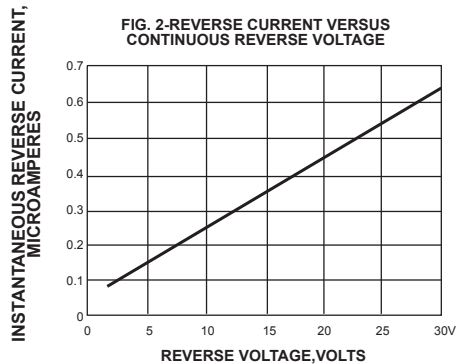
## 1N60P

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



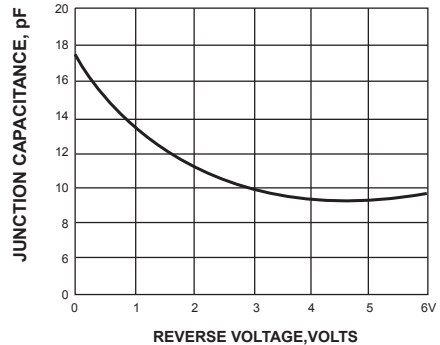
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE



REVERSE VOLTAGE, VOLTS

FIG. 3-JUNCTION CAPACITANCE VERSUS CONTINUOUS REVERSE APPLIED VOLTAGE



REVERSE VOLTAGE, VOLTS