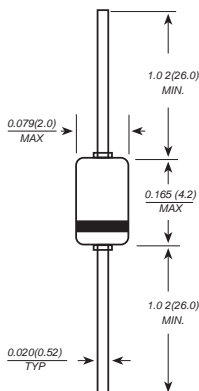


# 1N60 THRU 1N60P

## 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 $T_A=25^\circ\text{C}$	$I_F$	30	50	mA
Peak forward surge current ( $t=1\text{s}$ )	$I_{FSM}$	150	500	mA
Storage and junction temperature range	$T_J, T_{STG}$	-65 to +125		$^\circ\text{C}$
Maximum lead temperature for soldering during 10s at 4mm from case	$T_L$	230		$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

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