

Features

1. High reliability
2. Low reverse current and low forward voltage
3. High temperature soldering guaranteed
250 °C/10 seconds, 0.375 (9.5mm) length,
5 lbs. (2.3kg) tension

Mechanical Data

Case: DO-35 Glass Case

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

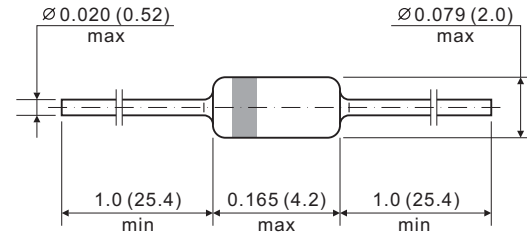
Polarity: Colour band denotes cathode end

Mounting Position: Any

Weight: approx. 0.005 ounce, 0.14grams

Standard Glass Case JEDEC DO-35

Dimensions in inches and (mm)



Absolute Maximum Ratings $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified

Parameter	Test Condition	Part	Symbol	Value	Unit
Repetitive peak revers voltage		1N60	V_{RRM}	40	V
		1N60P	V_{RRM}	45	V
Peak forward surge current	$T_p = 1\text{ s}$	1N60	I_{FSM}	150	mA
		1N60P	I_{FSM}	500	mA
Forward continuous current	$T_{amb} = 25^{\circ}\text{C}$	1N60	I_F	30	mA
		1N60P	I_F	50	mA

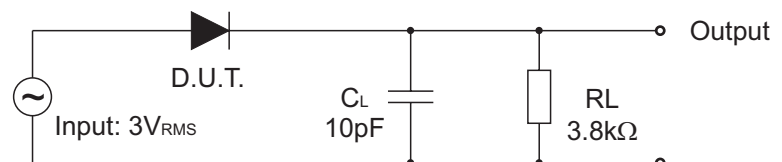
Thermal Characteristics $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified

Parameter	Test Condition	Symbol	Value	Unit
Thermal resistance, Junction to ambient	$l = 4\text{ mm}$, $T_L = \text{constant}$	R_{thJA}	350	$^{\circ}\text{C} / \text{W}$
Junction temperature		T_j	125	$^{\circ}\text{C}$
Storage temperature		T_{stg}	- 65 ~ 125	$^{\circ}\text{C}$

Electrical Characteristics $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified

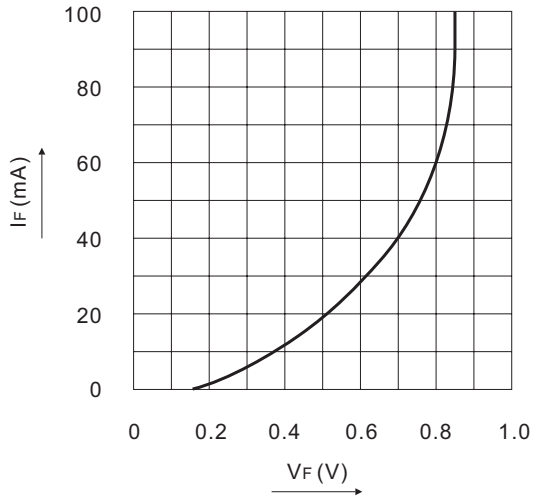
Parameter	Test Condition	Part	Symbol	Min	Typ.	Max	Unit
Forward voltage	$I_F = 1\text{ mA}$	1N60	V_F	—	0.32	0.5	V
		1N60P	V_F	—	0.24	0.5	V
	$I_F = 30\text{ mA}$	1N60	V_F	—	0.65	1.0	V
		1N60P	V_F	—	0.65	1.0	V
Reverse leakage current	$V_R = 15\text{ V}$	1N60	I_R	—	0.1	0.5	μA
		1N60P	I_R	—	0.5	1.0	μA
Diode capacitance	$V_R = 1\text{ V}$, $f = 1\text{ MHz}$	1N60	C_{tot}	—	2.0	—	pF
	$V_R = 10\text{ V}$, $f = 1\text{ MHz}$	1N60P	C_{tot}	—	6.0	—	pF
Detection efficiency (See the measurement circuit)	$V_{IN} = 3\text{ V}$, $f = 30\text{ MHz}$ $C_L = 10\text{ pF}$, $R_L = 3.8\text{ k}\Omega$		η	—	0.60	—	—
Reverse recovery time	$I_F = 10\text{ mA}$, $I_R = 10\text{ mA}$, $I_{rr} = 1\text{ m}$, $R_L = 100\ \Omega$		t_{rr}	—	—	1	ns

Detection Efficiency Measurement Circuit

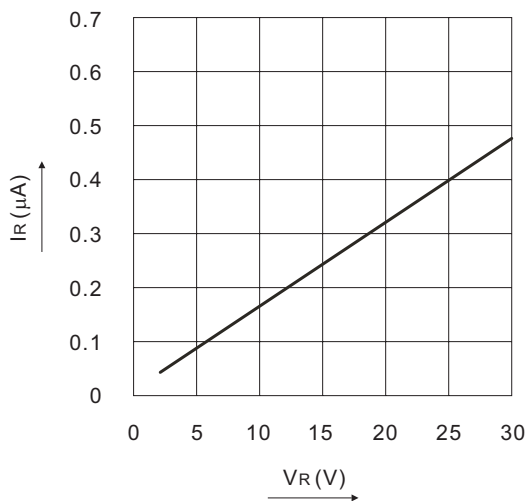


1N60 Ratings and Characteristic Curves T_{amb} = 25 °C unless otherwise specified

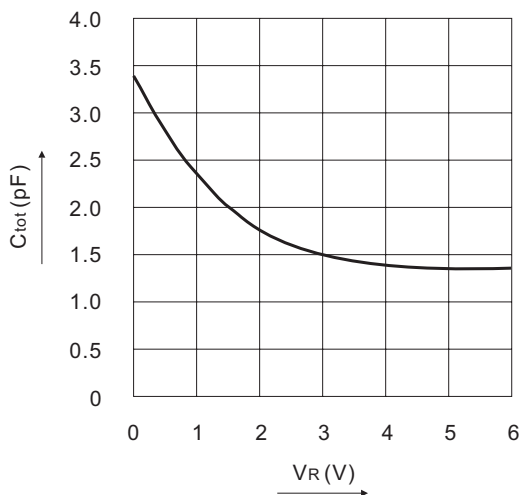
Forward current versus forward voltage (typical values)



Reverse current versus continuous reverse voltage

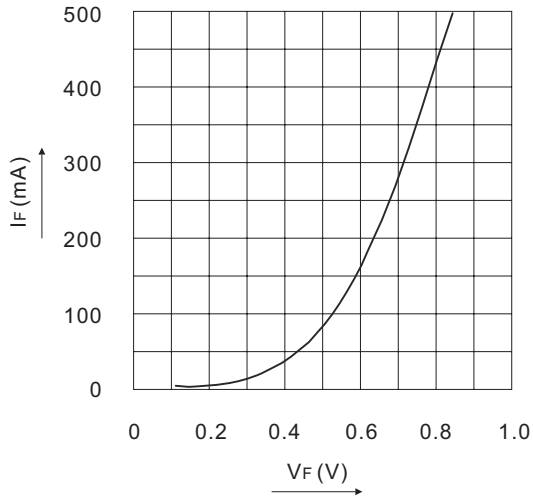


Diode capacitance versus continuous reverse voltage

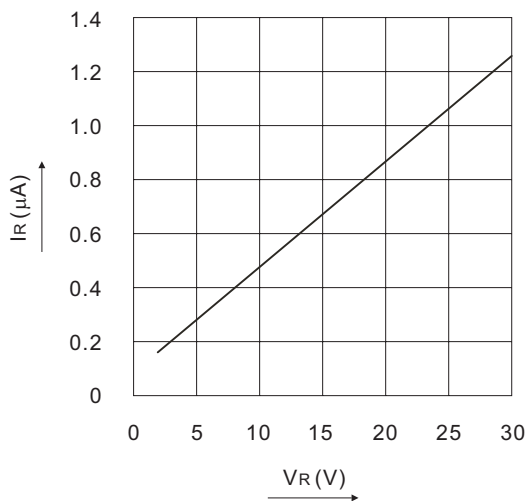


1N60P Ratings and Characteristic Curves T_{amb} = 25 °C unless otherwise specified

Forward current versus forward voltage (typical values)



Reverse current versus continuous reverse voltage



Diode capacitance versus continuous reverse voltage

