1N60-DO35 / 1N60P-DO35

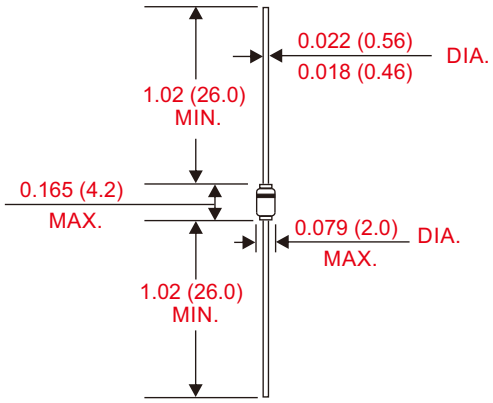
30-50mA Leaded Type Small Signal Diodes

■Features

- Low current rectification and high speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.1N60G.
- Lead-free parts for green partner, exceeds environmental standards of MIL-STD-19500 /228.

■Outline

DO-35



Dimensions in inches and (millimeters)

■ Mechanical data

- Case : Glass, DO-35
- Terminals :Plated terminals, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : Approximated 0.12 gram

■Maximum ratings and electrical characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	1N60-DO35	1N60P-DO35	UNIT
Making code		1N60	1N60P	
Repetitive Peak Reverse Voltage	V_{RRM}	40	45	V
Peak Forward Surge Current(tp < 1s)	I_{FSM}	150	500	mA
Forward Continuous Current	I_F	30	50	mA
Thermal Resistance Junction to Ambient(1)	$R_{\theta JA}$	250		K/W
Storage Temperature	T_{STG}	-55 ~ +150		°C
Operating Junction Temperature	T_J	-55 ~ +125		°C

Characteristic			Symbol	MIN.	TYP.	MAX.	UNIT
Reverse Current	V_R = 15V	1N60	I_R		0.1	0.5	uA
		1N60P			0.5	1.0	
Junction Capacitance	V_R = 1.0V, f = 1.0MHz	1N60	C_J		2.0		pF
	V_R = 10V, f = 1.0MHz	1N60P			6.0		
Forward Voltage	I_F= 1.0mAdc	1N60	V_F		320	500	mV
		1N60P			240	500	
	I_F= 30mAdc	1N60			650	1000	
	I_F= 200mAdc	1N60P			650	1000	
Reverse Recovery Time	I_F= I_R = 1mAdc, I_{rr} = 1.0mA, R_C = 100Ω		trr			1.0	nS

1. On board 50mm x 50mm x1.6mm.

Document ID : DS-21K1R
Revised Date : 2019/11/09
Revision : C2

■Rating and characteristic curves

FIG.1-TYPICAL FORWARD CHARACTERISTICS

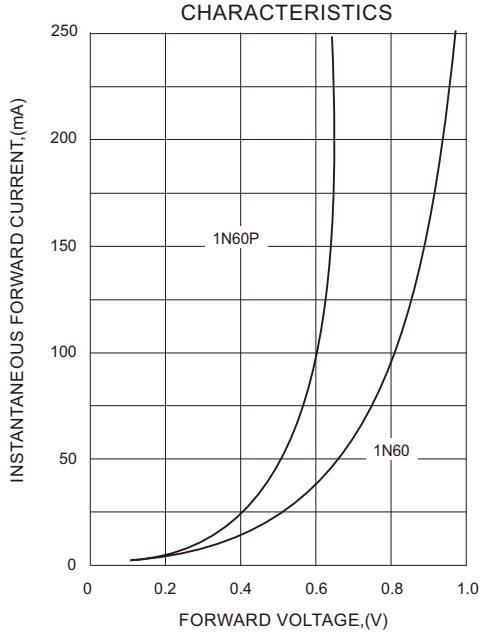


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

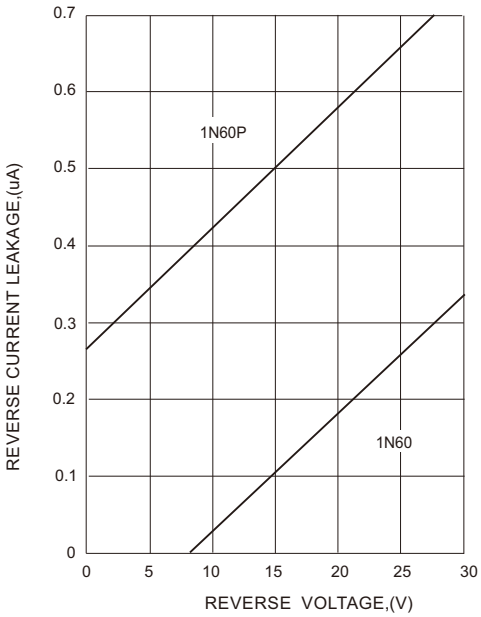
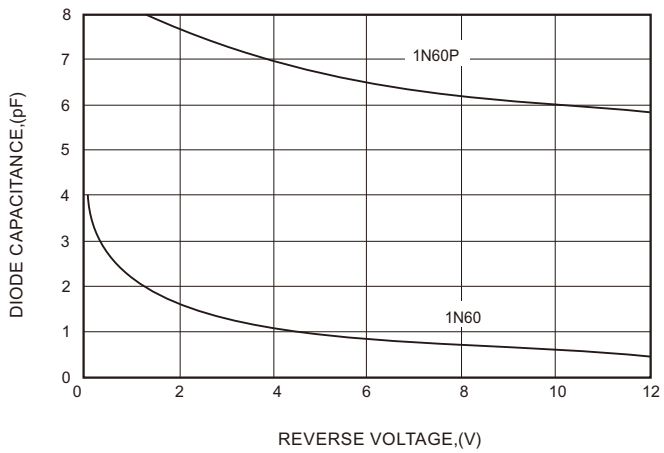


FIG.2 - TYPICAL DIODE CAPACITANCE



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http://www.citcorp.com.tw/ Tel:886-3-5600628 Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)