MGPN Series



GaAs PIN Diodes

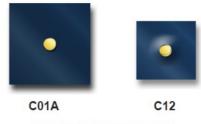
Rev. V1

Features

- Nanosecond Switching Speed with Low-Cost TTL Logic
- Low Series Resistance
- No Reverse Bias Required for Low Loss
- RoHS* Compliant

Description

The MGPN GaAs PIN Diodes are a series of GaAs PIN diodes suitable for high frequency, >26 GHz, switch and high speed modulation applications.



Available Chip Packages

Electrical Characteristics, T_C = +25°C

Parameters	V _{BR}		V _F	CJ		R _s		TL	
Units	V		mV	pF		Ohms		ns	
Test Condition	I _R = 10 μA		I _F = 10 mA	V _R = 10 V, F = 1 MHz		I _F = 20 mA, F = 1 GHz		I _F = 10 mA I _R = 6 mA	
rest condition	Min.	Тур.	Тур.	Тур.	Max.	Тур.	Max.	Тур.	Max.
MGPN0515-C12	50	68	1300	0.13	0.15	0.85	1.0	6	9
MGPN0518-C12	50	68	1300	0.16	0.18	0.75	1.0	6	9
MGPN1506-C12	150	205	1300	0.05	0.06	1.6	2.0	15	20
MGPN1504-C01A	150	205	1350	0.036	0.04	2.0	3.0	8	10
MGPN1503-C01A	150	205	1350	0.027	0.03	2.0	3.0	8	10

Absolute Maximum Ratings

Rating	Limits			
V _R	Vbr			
I _F	150 mA			
Θ _{JC}	225°C/W			
P _{DISS}	400 mW de-rated to zero at 150°C			
T _J	175°C			
T _{STG}	-65°C to +200°C			
T _{die attach}	<320°C per 5 sec			
Electrostatic Discharge (ESD)	Class 0 (Human Body Model)			

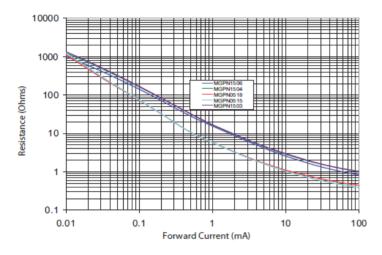
^{*} Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.



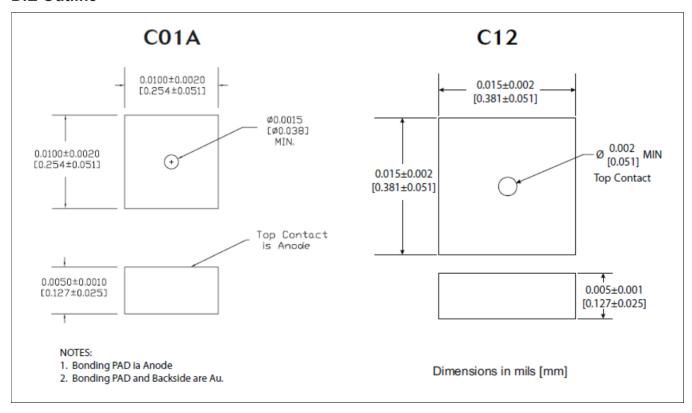
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Series Resistance vs. Bias Current @ 25°C, 500 MHz



DIE Outline



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Rev. V1

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