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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Silicon Pin Diode

This device is designed primarily for VHF band switching applications but is also suitable for use in general–purpose switching circuits. It is supplied in a cost–effective TO–92 type plastic package for economical, high–volume consumer and industrial requirements.

Features

- Rugged PIN Structure Coupled with Wirebond Construction for Optimum Reliability
- Low Series Resistance @ 100 MHz: $R_S = 0.7 \Omega$ (Typ) @ $I_F = 10 \text{ mAdc}$
- Sturdy TO–92 Style Package for Handling Ease
- Pb–Free Packages are Available*

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	20	Vdc
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	P _D	400 4.0	mW mW/°C
Junction Temperature	Τ _J	+125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

				,
Symbol	Min	Тур	Max	Unit
V _{(BR)R}	20	-	-	Vdc
CT	-	1.3	2.0	pF
R _S	-	0.7	0.85	Ω
I _R	-	-	0.1	μAdc
	V _{(BR)R} C _T R _S	$V_{(BR)R}$ 20 C_T – R_S –	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)



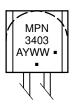
ON Semiconductor®

http://onsemi.com





MARKING DIAGRAM



A = Assembly Location Y = Year WW = Work Week

= Pb-Free Package

(Note: Microdot may be in either location)

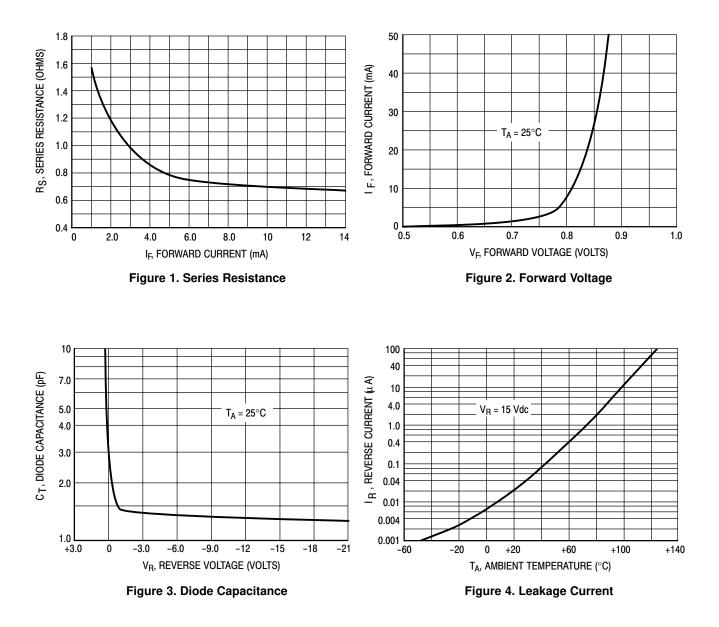
ORDERING INFORMATION

Device	Package	Shipping
MPN3404	TO-92	1000 Units / Bulk
MPN3404G	TO-92 (Pb-Free)	1000 Units / Bulk

*For additional information on our Pb–Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MPN3404

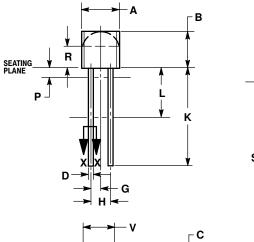
TYPICAL CHARACTERISTICS

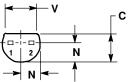


MPN3404

PACKAGE DIMENSIONS

TO-92 (TO-226) CASE 182-06 ISSUE L









- NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: INCH.
- 3. CONTOUR OF PACKAGE BEYOND ZONE R IS UNCONTROLLED
- 4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
Α	0.175	0.205	4.45	5.21
В	0.170	0.210	4.32	5.33
С	0.125	0.165	3.18	4.19
D	0.016	0.021	0.407	0.533
G	0.050 BSC		1.27 BSC	
Н	0.100 BSC		2.54 BSC	
J	0.014	0.016	0.36	0.41
K	0.500		12.70	
L	0.250		6.35	
Ν	0.080	0.105	2.03	2.66
Ρ		0.050		1.27
R	0.115		2.93	
۷	0.135		3.43	
STYLE 1:				
PIN 1. ANODE				

2. CATHODE

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