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Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

ON Semiconductor MPS4126RLRAG

For any questions, you can email us directly: sales@integrated-circuit.com



MPS4126

Amplifier Transistor

PNP Silicon

Features

• This is a Pb-Free Device*



Rating	Symbol	Value	Unit
Collector - Emitter Voltage	V _{CE}	-25	Vdc
Collector - Base Voltage	V _{CB}	-25	Vdc
Emitter - Base Voltage	V _{EB}	-4.0	Vdc
Collector Current – Continuous	Ic	-200	mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	P _D	625 5.0	W mW/°C
Total Device Dissipation @ T _C = 25°C Derate above 25°C	P _D	1.5 12	W mW/°C
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-55 to +150	°C

THERMAL CHARACTERISTICS

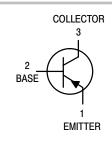
Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	200	°C/W
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	83.3	°C/W

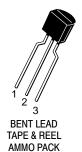
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.



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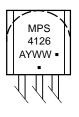
http://onsemi.com





TO-92 CASE 29 STYLE 1

MARKING DIAGRAM



= Assembly Location

= Year WW = Work Week = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]	
MPS4126RLRAG	TO-92 (Pb-Free)	2,000/Tape & Reel	

^{*}For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques

Reference Manual, SOLDERRM/D.

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

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Datasheet of MPS4126RLRAG - TRANS PNP 25V 0.2A TO-92

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MPS4126

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

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS	<u>.</u>			
Collector – Emitter Breakdown Voltage (I _C = -1.0 mA, I _B = 0)	V _{(BR)CEO}	-25	_	Vdc
Collector – Base Breakdown Voltage $(I_C = -10 \mu A, I_E = 0)$	V _{(BR)CBO}	-25	-	Vdc
Emitter – Base Breakdown Voltage $(I_C = 0, I_E = -10 \mu A)$	V _{(BR)EBO}	-4.0	-	Vdc
Collector Cutoff Current (V _{CB} = -20 V, I _E = 0)	I _{CBO}	-	-50	nAdc
Emitter Cutoff Current $(V_{EB} = -3.0 \text{ V}, I_C = 0)$	I _{EBO}	-	-50	nAdc
ON CHARACTERISTICS	·			
DC Current Gain	h _{FE}	120 60	360 -	-
Collector – Emitter Saturation Voltage $(I_C = -50 \text{ mA}, I_B = -5.0 \text{ mA})$	V _{CE(sat)}	-	-0.4	Vdc
Base – Emitter Saturation Voltage (I _C = -50 mA, I _B = -5.0 mA)	V _{BE(sat)}	-	-0.95	Vdc
SMALL-SIGNAL CHARACTERISTICS	<u>.</u>			
Current – Gain — Bandwidth Product $(I_C = -10 \text{ mA}, V_{CE} = -20 \text{ V}, f = 100 \text{ MHz})$	f _T	170	_	MHz
Output Capacitance ($V_{CB} = -5.0 \text{ V}, I_E = 0, f = 1.0 \text{ MHz}$)	C _{ob}	_	4.5	pF
Input Capacitance ($V_{EB} = -0.5 \text{ V}, I_{C} = 0, f = 1.0 \text{ MHz}$)	C _{ib}	-	11.5	pF
Small–Signal Current Gain ($I_C = -2.0 \text{ mA}, V_{CE} = 1.0 \text{ V}, f = 1.0 \text{ kHz}$)	h _{fe}	120	480	-
Noise Figure $(I_C = -100~\mu\text{A},~V_{CE} = -5.0~\text{V},~R_S = 1.0~\text{k}\Omega,~f = 1.0~\text{kHz})$	NF	-	4.0	dB



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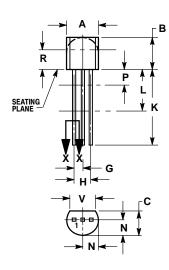
Datasheet of MPS4126RLRAG - TRANS PNP 25V 0.2A TO-92

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MPS4126

PACKAGE DIMENSIONS

TO-92 (TO-226) CASE 29-11 **ISSUE AM**



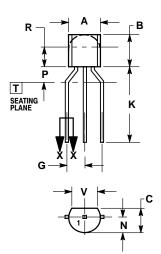
STRAIGHT LEAD **BULK PACK**



NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. CONTROLLING DIMENSION: INCH.
- CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED. LEAD DIMENSION IS UNCONTROLLED IN P AND
- BEYOND DIMENSION K MINIMUN

	INCHES		MILLIN	IETERS
DIM	MIN	MAX	MIN	MAX
Α	0.175	0.205	4.45	5.20
В	0.170	0.210	4.32	5.33
C	0.125	0.165	3.18	4.19
D	0.016	0.021	0.407	0.533
G	0.045	0.055	1.15	1.39
Н	0.095	0.105	2.42	2.66
J	0.015	0.020	0.39	0.50
K	0.500		12.70	
L	0.250		6.35	
N	0.080	0.105	2.04	2.66
Р		0.100		2.54
R	0.115		2.93	
٧	0.135		3.43	



BENT LEAD TAPE & REEL AMMO PACK



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994. CONTROLLING DIMENSION: MILLIMETERS.
- CONTOUR OF PACKAGE BEYOND
- DIMENSION R IS UNCONTROLLED.
 LEAD DIMENSION IS UNCONTROLLED IN P
 AND BEYOND DIMENSION K MINIMUM.

	MILLIMETERS		
DIM	MIN	MAX	
Α	4.45	5.20	
В	4.32	5.33	
С	3.18	4.19	
D	0.40	0.54	
G	2.40	2.80	
J	0.39	0.50	
K	12.70		
N	2.04	2.66	
P	1.50	4.00	
R	2.93		
V	3.43		

STYLE 1: PIN 1.

EMITTER

BASE

COLLECTOR

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