



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA20 and MPSA70 are complementary silicon transistors designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

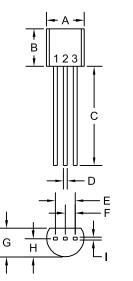
MAXIMUM RATINGS: (T _A =25°C)		SYMBOL	10	UNITS
Collector-Emitter Voltage		V _{CEO}	40	V
Emitter-Base Voltage		V _{EBO}	4.0	V
Continuous Collector Current		۱ _C	100	mA
Power Dissipation		PD	625	mW
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C
Thermal Resistance		ΘJA	200	°C/W
ELECTRICA	L CHARACTERISTICS: (T _A =25°C)			
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =30V		100	nA
BVCEO	I _C =1.0mA	40		V
BVEBO	Ι _Ε =100μΑ	4.0		V
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA		0.25	V
h _{FE}	V _{CE} =10V, I _C =5.0mA	40	400	
fT	V _{CE} =10V, I _C =5.0mA, f=100MHz	125		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=100kHz		4.0	pF

R1 (18-March 2014)





COMPLEMENTARY SILICON TRANSISTORS



TO-92 CASE - MECHANICAL OUTLINE

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	-	12.70	-			
D	0.016	0.022	0.41	0.56			
E	0.100		2.54				
F	0.050		1.27				
G	0.125	0.165	3.18	4.19			
Н	0.080	0.105	2.03	2.67			
	0.015		0.38				
TO-92 (REV: R1)							

LEAD CODE:

1) Emitter 2) Base 3) Collector

R1

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R1 (18-March 2014)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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