

MPSA20 NPN
MPSA70 PNP

**COMPLEMENTARY
SILICON TRANSISTORS**



TO-92 CASE



www.centrasemi.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: ($T_A=25^{\circ}\text{C}$)

Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{CEO} 40
 V_{EBO} 4.0
 I_C 100
 P_D 625
 T_J, T_{stg} -65 to +150
 Θ_{JA} 200

UNITS

V
V
mA
mW
 $^{\circ}\text{C}$
 $^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$)

SYMBOL TEST CONDITIONS

I_{CBO} $V_{CB}=30\text{V}$
 BV_{CEO} $I_C=1.0\text{mA}$
 BV_{EBO} $I_E=100\mu\text{A}$
 $V_{CE(SAT)}$ $I_C=10\text{mA}, I_B=1.0\text{mA}$
 h_{FE} $V_{CE}=10\text{V}, I_C=5.0\text{mA}$
 f_T $V_{CE}=10\text{V}, I_C=5.0\text{mA}, f=100\text{MHz}$
 C_{ob} $V_{CB}=10\text{V}, I_E=0, f=100\text{kHz}$

MIN

40
4.0

40
125

MAX

100

0.25
400
4.0

UNITS

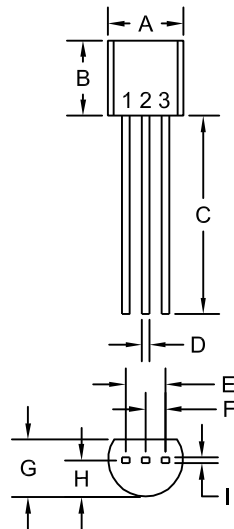
nA
V
V
V
MHz
pF

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TO-92 CASE - MECHANICAL OUTLINE



R1

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	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
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING:
FULL PART NUMBER

R1 (18-March 2014)

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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