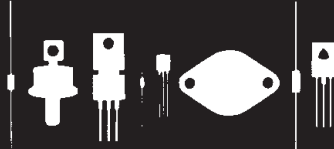


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145 Adams Avenue
Hauppauge, New York 11788



MPSA20 NPN
MPSA70 PNP

COMPLEMENTARY SILICON TRANSISTORS

JEDEC TO-92 CASE (EBC)

DESCRIPTION

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

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	<u>SYMBOL</u>		<u>UNIT</u>
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	4.0	V
Collector Current	I _C	100	mA
Power Dissipation	P _D	625	mW
Power Dissipation (T _C =25°C)	P _D	1.5	W
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 TO +150	°C
Thermal Resistance	θ _{JA}	.200	°C/mW
Thermal Resistance	θ _{JC}	83.3	°C/W

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
I _{CBO}	V _{CB} =30V		100	nA
BV _{CEO}	I _C =1.0mA	40		V
BV _{EBO}	I _E =100µA	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	
f _T	V _{CE} =10V, I _C =5.0mA, f=100MHz	125		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=100kHz		4.0	pF

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