

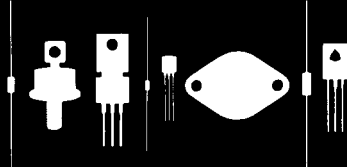
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MJE371 PNP
MJE521 NPN

SILICON COMPLEMENTARY
POWER TRANSISTORS

JEDEC TO-126 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR MJE371, MJE521 types are Complementary Silicon Power Transistors designed for use in general purpose amplifier and switching applications.

MAXIMUM RATINGS ($T_C=25^{\circ}C$)

	<u>SYMBOL</u>		<u>UNIT</u>
Collector-Base Voltage	V_{CB0}	40	V
Collector-Emitter Voltage	V_{CE0}	40	V
Emitter-Base Voltage	V_{EB0}	4.0	V
Collector Current	I_C	4.0	A
Collector Current (PEAK)	I_{CM}	8.0	A
Power Dissipation	P_D	40	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +150	$^{\circ}C$
Thermal Resistance	θ_{JC}	3.1	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}C$)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
I_{CB0}	$V_{CB}=40V$		100	μA
I_{EB0}	$V_{EB}=4.0V$		100	μA
BV_{CE0}	$I_C=100mA$	40		V
h_{FE}	$V_{CE}=1.0V, I_C=1.0A$	40		



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