

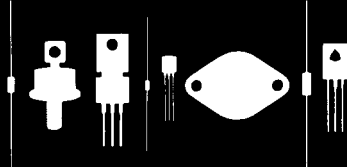
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145 Adams Avenue  
Hauppauge, New York 11788



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

	<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	$^{\circ}\text{C}$
Thermal Resistance	$\theta_{JC}$	3.1	$^{\circ}\text{C}/\text{W}$

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

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



To-126

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