

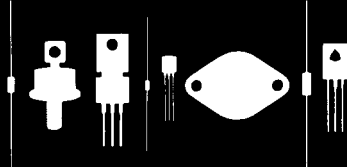
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MJE371 PNP  
MJE521 NPN

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	$\theta_{JC}$	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	$\mu A$
$I_{EB0}$	$V_{EB}=4.0V$		100	$\mu A$
$BV_{CE0}$	$I_C=100mA$	40		V
$h_{FE}$	$V_{CE}=1.0V, I_C=1.0A$	40		



To-126