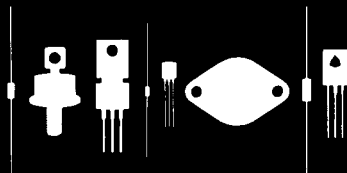


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145 Adams Avenue
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MJE371 PNP
MJE521 NPN

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

	SYMBOL		UNIT
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	θ_{JC}	3.1	$^{\circ}\text{C/W}$

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

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



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