

# New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.  
 SPRINGFIELD, NEW JERSEY 07081  
 U.S.A.

TELEPHONE: (973) 376-2922  
 (212) 227-6005  
 FAX: (973) 376-8960

MJE370 PNP  
 MJE520 NPN

## SILICON COMPLEMENTARY POWER TRANSISTORS

JEDEC TO-126 CASE

MJE370, MJE520 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	$V_{CB0}$	30	V
Collector-Emitter Voltage	$V_{CE0}$	30	V
Emitter-Base Voltage	$V_{EB0}$	4.0	V
Collector Current	$I_C$	3.0	A
Collector Current (PEAK)	$I_{CM}$	7.0	A
Power Dissipation	$P_D$	25	W
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 TO +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$	5.0	$^\circ\text{C}/\text{W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_{CBO}$	$V_{CB}=30\text{V}$		100	$\mu\text{A}$
$I_{EBO}$	$V_{EB}=4.0\text{V}$		100	$\mu\text{A}$
$BV_{CE0}$	$I_C=100\text{mA}$	30		V
$h_{FE}$	$V_{CE}=1.0\text{V}, I_C=1.0\text{A}$	25		



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors