

New Jersey Semi-Conductor Products, Inc.

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

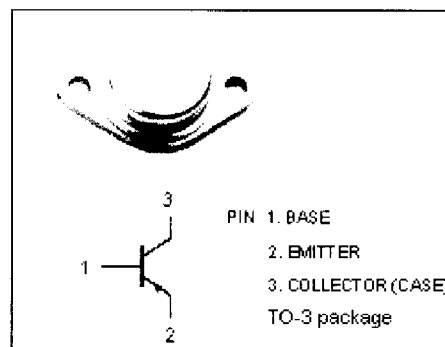
TELEPHONE: (973) 376-2922
 (212) 227-6005
 FAX: (973) 376-8960

Silicon PNP Power Transistor**2SA1051****DESCRIPTION**

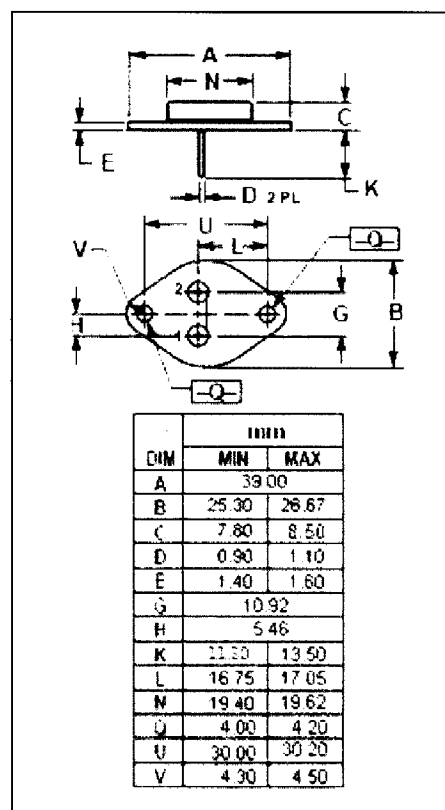
- High Current Capability
- Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -150V(\text{Min.})$
- High Power Dissipation

APPLICATIONS

- Designed for power amplifier and general purpose applications.

**ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)**

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-15	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	150	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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

Silicon PNP Power Transistor**2SA1051****ELECTRICAL CHARACTERISTICS**T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-150			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7.5A; I _B = -0.75A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -150V; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μ A
h _{FE}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		240	
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		60		MHz

◆ **h_{FE} Classifications**

R	O	Y
55-110	80-160	120-240