

isc Silicon PNP Power Transistor

MJE371

DESCRIPTION

- Collector–Emitter Sustaining Voltage—
: $V_{CEO(SUS)} = -40V$
- DC Current Gain—
: $h_{FE} = 40(\text{Min}) @ I_C = -1A$
- Complement to Type MJE521
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

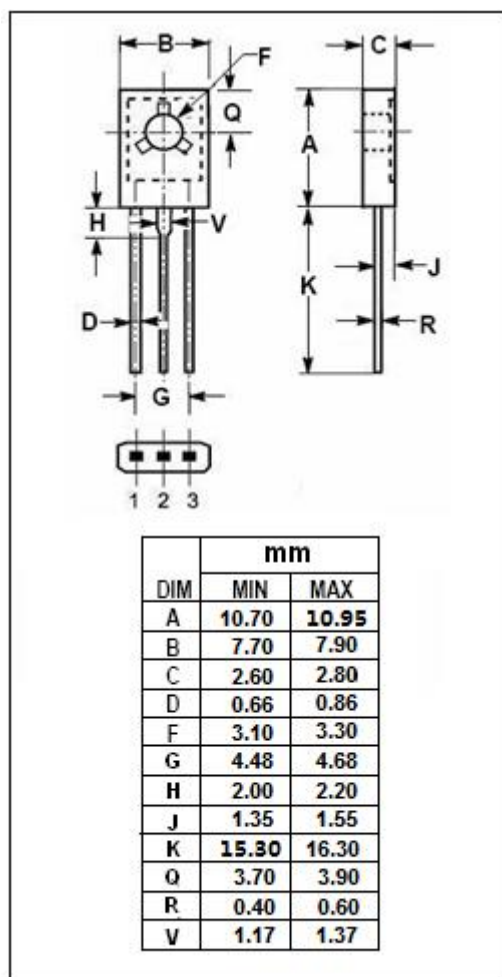
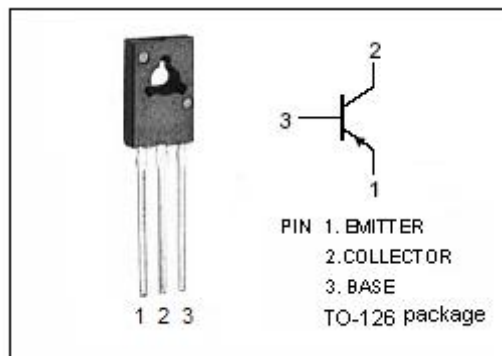
- Designed for use in general-purpose amplifier and switching circuits.
- Recommended for use in 5~20 Watt audio amplifiers utilizing complementary symmetry circuitry.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current-Continuous	-4	A
I_{CM}	Collector Current-peak	-8	A
I_B	Base Current	-2	A
P_C	Collector Power Dissipation $T_C=25^{\circ}C$	40	W
T_j	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	3.12	$^{\circ}C/W$



isc Silicon PNP Power Transistor**MJE371****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -50mA; I _B = 0	-40		V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0		-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0		-100	μ A
h _{FE}	DC Current Gain	I _C = -1 A; V _{CE} = -1V	40		

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