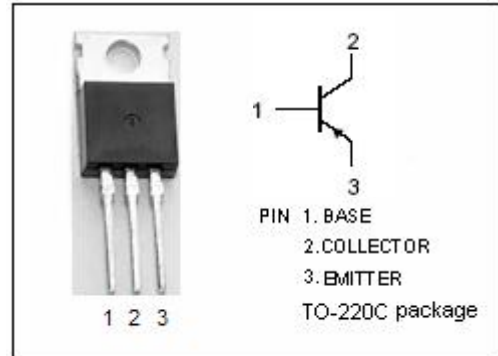


isc Silicon PNP Power Transistor
MJE15037
DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = -250V(\text{Min})$
- DC current gain -
: $h_{FE} = 5000 (\text{Min}) @ I_C = -0.5 \text{ A}$
: $h_{FE} = 3000 (\text{Min}) @ I_C = -2.0 \text{ A}$
- Complement to Type MJE15036
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

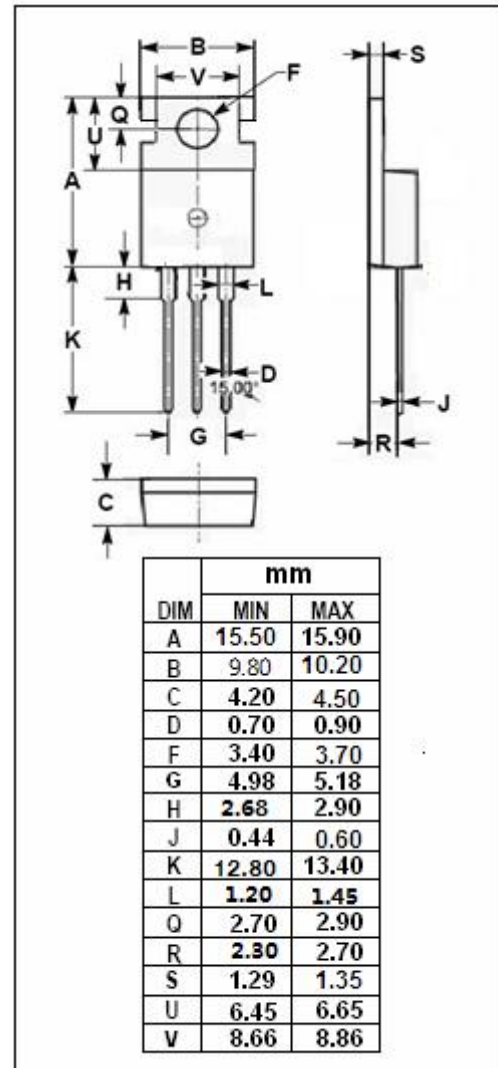
- Designed for use as high-frequency drivers in audio amplifiers.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-250	V
V_{CEO}	Collector-Emitter Voltage	-250	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-8	A
I_B	Base Current	-2	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	50	
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.5	°C/W



isc Silicon PNP Power Transistor

MJE15037

ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA ; I _B = 0	-250		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A ; I _B = -0.1A		-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A ; V _{CE} = -5V		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -250V ; I _E = 0		-1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V ; I _C = 0		-1	μ A
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	5000		
h _{FE-2}	DC Current Gain	I _C = -0.5A ; V _{CE} = -5V	5000		
h _{FE-3}	DC Current Gain	I _C = -2A ; V _{CE} = -5V	3000		

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