

isc Silicon NPN Power Transistor
MJE15034
DESCRIPTION

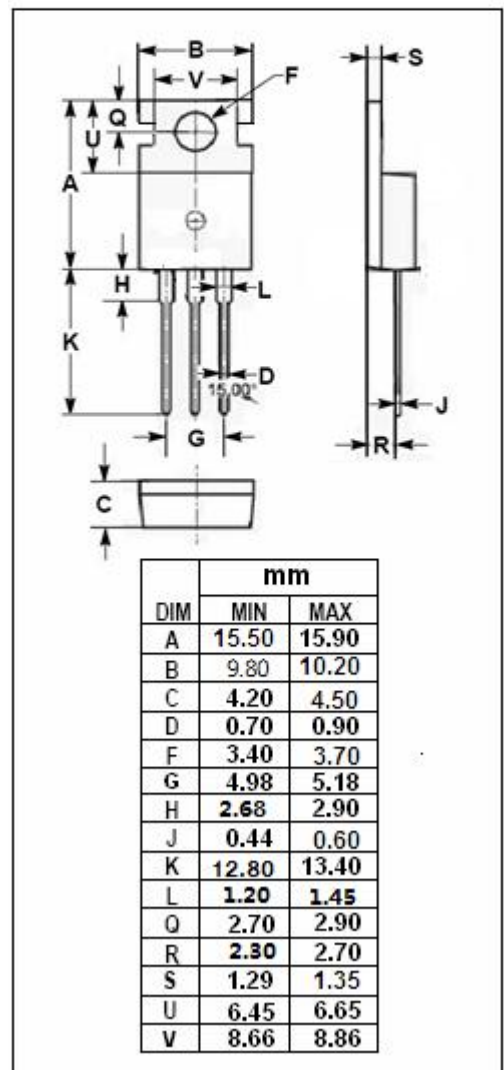
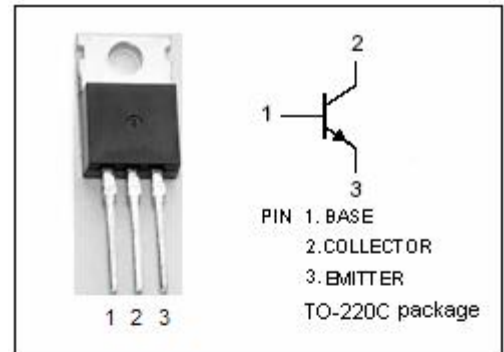
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO}=350V$
- Good Linearity of h_{FE}
- Complement to Type MJE15035
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications
- Driver stage amplifier applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	350	V
V_{CEO}	Collector-Emitter Voltage	350	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	4	A
I_{CM}	-Peak	8	A
P_C	Total Power Dissipation @ $T_C=25^\circ C$	50	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon NPN Power Transistor**MJE15034****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _c =10mA ; I _B = 0	350			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c = 1A; I _B = 0.1A			0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _c =1A ; V _{CE} = 5V			1.0	V
I _{cBO}	Collector Cutoff Current	V _{CB} = 350V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} =5V; I _C = 0			1.0	μ A
h _{FE1}	DC Current Gain	I _c =0.1A ; V _{CE} =5V	100			
h _{FE2}	DC Current Gain	I _c =0.5A ; V _{CE} =5V	100			
h _{FE3}	DC Current Gain	I _c =1.0A ; V _{CE} =5V	50			
h _{FE4}	DC Current Gain	I _c =2.0A ; V _{CE} =5V	10			
f _T	Current-Gain—Bandwidth Product	I _c =0.1A;V _{CE} =10V		15		MHz

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