

isc Silicon PNP Power Transistor

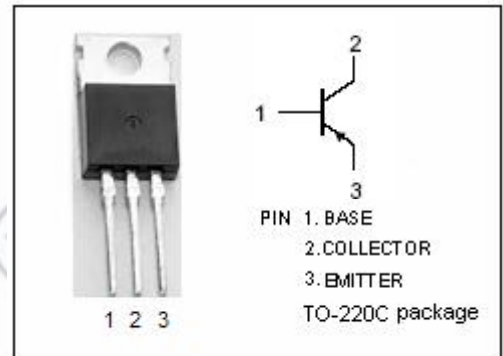
MJE9780

DESCRIPTION

- Standard TO-220 Package
- Gain Range of 50 – 200 at 500 mAdc/10 volts

APPLICATIONS

- Designed for vertical output of 14-inch to 17-inch televisions and CRT monitors, as well as other applications requiring a 150 volt PNP transistor.

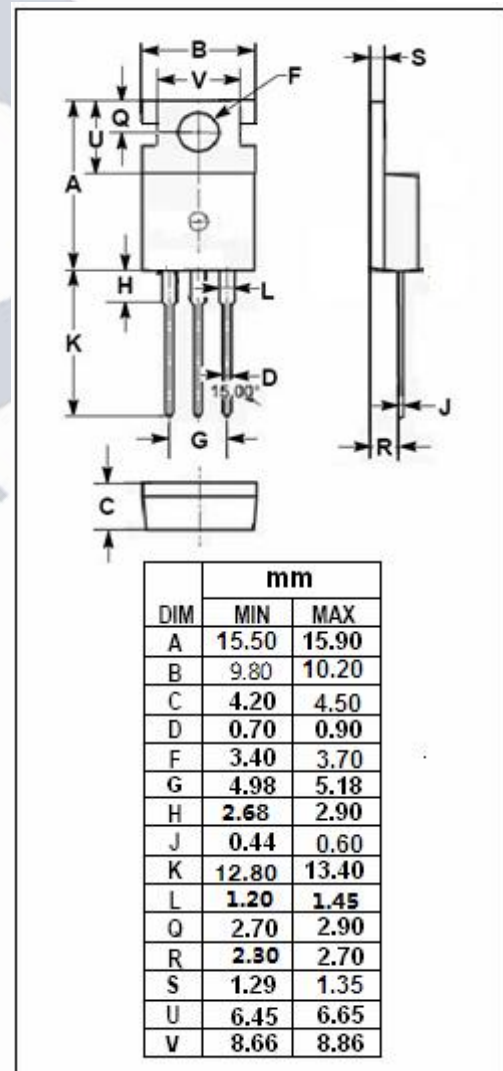


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-200	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _c	Collector Current-Continuous	-3	A
I _{CM}	Collector Current-Peak	-5	A
P _C	Total Power Dissipation @ T _C =25°C	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.12	°C/W



isc Silicon PNP Power Transistor**MJE9780****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 = -50mA ; I _B = 0	-150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA ; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.5A ; I _B = -50mA			-0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A ; V _{CE} = -4V			-1.5	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 1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -10V	50		200	
h _{FE 2}	DC Current Gain	I _C = -0.05A ; V _{CE} = -10V	60			
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A ; V _{CE} = -10V ; f _{test} = 1MHz		5		MHz