

Silicon NPN Power Transistors

BU120

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
:V_{CEO(SUS)} = 200V(Min)

APPLICATIONS

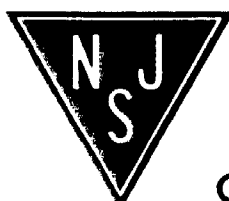
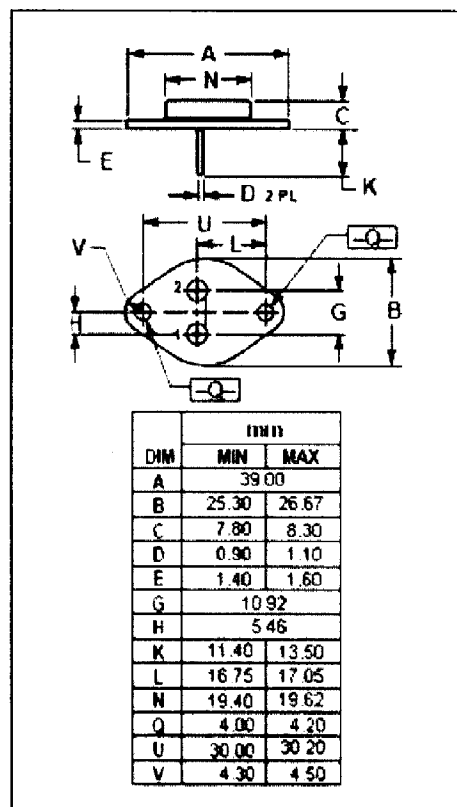
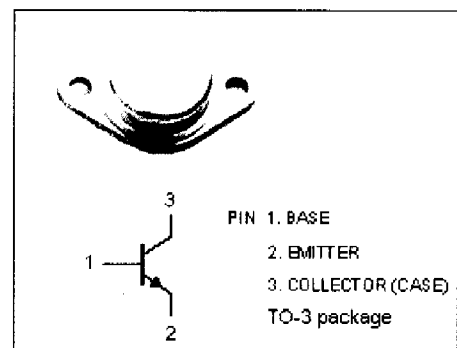
- Designed for horizontal deflection output stage of CTV receivers and high voltage, fast switching and industrial application.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Emitter Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	10	A
I _{CM}	Collector Current-peak	15	A
I _B	Base Current-Continuous	3.0	A
P _C	Collector Power Dissipation @T _C =25°C	100	W
T _J	Junction Temperature	200	°C
T _{stg}	Storage Temperature Range	-65~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.75	°C/W



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Quality Semi-Conductors

Silicon NPN Power Transistors**BU120****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 100mA; I _B = 0	200		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	400		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A		3.3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A		2.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 10V	30	120	
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V; f _{test} = 1MHz	6		MHz