



isc Silicon NPN Power Transistors

DESCRIPTION

- Collector-Emitter Sustaining Voltage-:V_{CEO(SUS)} = 200V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

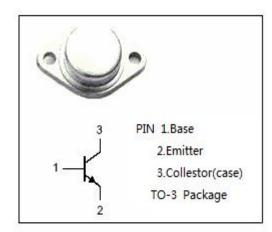
 Designed for horizontal deflection output stage of CTV receivers and high voltalge, fast switching and industrial application.

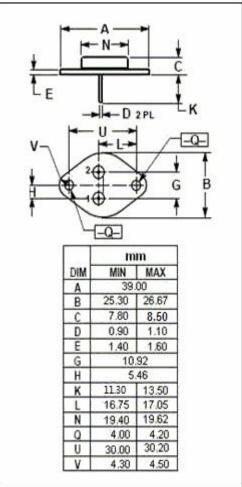
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Emitter Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage 7		٧
Ic	Collector Current-Continuous	5	Α
Ісм	Collector Current-peak	15	Α
I _B	Base Current-Continuous 3.0		Α
Pc	Collector Power Dissipation @T _c =25°C 50		W
Tj	Junction Temperature 150		°C
T _{stg}	Storage Temperature Range -65~150		$^{\circ}$

THERMAL CHARACTERISTICS

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







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BU120

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	200		٧
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} = 5V	35	165	
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V;f _{test} = 1MHz	6		MHz

NOTICE:

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