

isc Silicon NPN Power Transistor

BU102

UIDESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 150V(Min.)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 2.0V(Max.)@ I_C= 5A
- With TO-3 Package
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

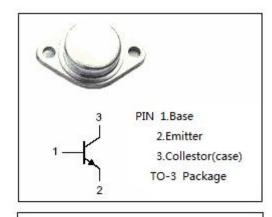


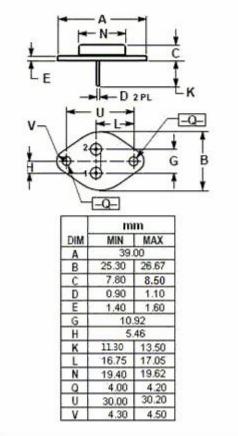
APPLICATIONS

· Designed for horizontal deflection output stage of CTV receivers applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	7	А
Pc	Collector Power Dissipation @ Tc=25℃	100	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	150			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			100	μА
Iceo	Collector Cutoff Current	V _{CE} = 150V; I _B = 0			500	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	30		120	

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