

isc Silicon NPN Power Transistor

BU111

DESCRIPTION

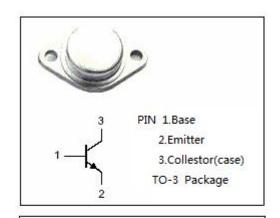
- · Collector-Emitter Sustaining Voltag-
- : V_{CEO(SUS)}= 300V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 1.5V(Max)@ I_C= 2.5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

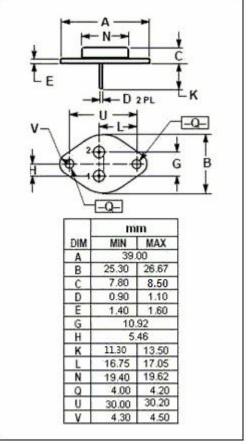
APPLICATIONS

• Designed for use in color TV receivers chopper supplies.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	500	V	
V _{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	6	Α	
I _{CM}	Collector Current-Peak Repetitive	8	Α	
lв	Base Current	3	Α	
Pc	Collector Power Dissipation @ Tc=25℃	50	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	







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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	200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA ;I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 2.5A; I _B = 0.5A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.4	V
Ісво	Collector Cutoff Current	V _{CB} = 400V; I _E =0			0.1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			0.1	mA
h _{FE}	DC Current Gain	I _C = 1mA ; V _{CE} = 10V	8			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V		10		MHz

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