

isc Silicon NPN Power Transistor

BU211

DESCRIPTION

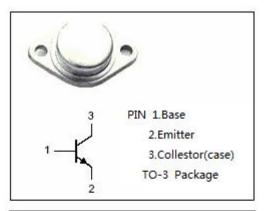
- High Collector-Base Breakdown Voltage-
 - : V_{(BR)CBO}= 600V (Min)
- High Current Capability
- High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

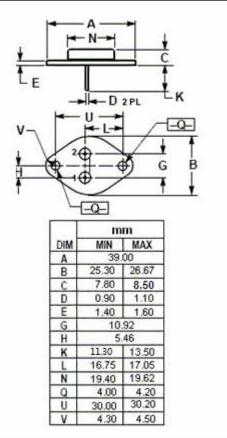
APPLICATIONS

• Designed for TV horizontal output and high power switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	МАХ	UNIT
V _{CBO}	Collector-Base Voltage	600	V
V _{CEO}	Collector-Emitter Voltage	300	V
Vево	Emitter-Base Voltage	8	V
lc	Collector Current-Continuous	12	А
Ісм	Collector Current-Peak	15	A
Pc	Collector Power Dissipation @T _c =25℃	85	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V(BR)CEO	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	300			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	600			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	8			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			2.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2.5A			2.2	V
Ісво	Collector Cutoff Current	V _{CB} = 600V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	I _C = 8A; V _{CE} = 5V	5			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		6		MHz
t _f	Fall Time	I _C = 8A; I _{B1} = -I _{B2} = 2.5A			1.0	μ S

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