

ISC Silicon NPN Power Transistor

BU210

DESCRIPTION

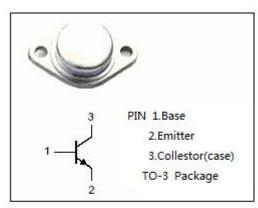
- · High Collector-Base Breakdown Voltage-
- : V_{(BR)CBO}= 400V (Min)
- · High Current Capability
- · High Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

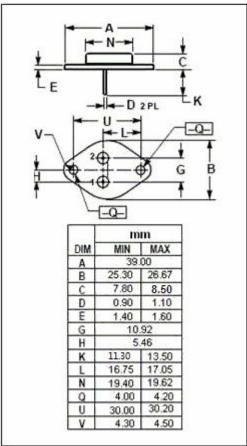
APPLICATIONS

 Designed for TV horizontal output and high power switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{CBO}	Collector-Base Voltage	400	V
Vceo	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	8	٧
Ic	Collector Current-Continuous	12	Α
Ісм	Collector Current-Peak	15	А
Pc	Collector Power Dissipation @T _C =25℃	85	W
T _j	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ 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	250			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	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} = 400V; 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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