

isc Silicon NPN Power Transistor

BU134

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 350V(Min.)
- · Collector Saturation Voltage-
- : V_{CE(sat)}= 1.0V(Max.)@ I_C= 3A
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

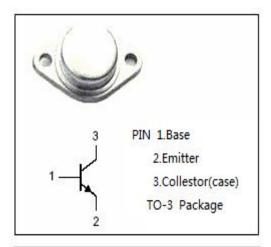
• Designed for use in color TV receiver's chopper supply.

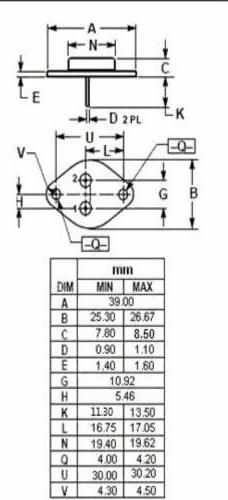
ABSOLU	TE MAXIMUM RATINGS(Ta=25℃)	
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SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	500	V
V _{CEO}	Collector-Emitter Voltage	350	V
V _{EBO}	Emitter-Base Voltage	8	V
lc	Collector Current-Continuous	4	А
I _{CM}	Collector Current-Peak	7	А
I _B	Base Current-Continuous	1	А
Pc	Collector Power Dissipation @ T _c = 25℃	85	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	2.0	°C/W





isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNI T
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	350			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A; V _{CE} = 5V			1.5	V
Ices	Collector Cutoff Current	V _{CE} = 400V; V _{BE} = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	30		120	
f⊤	Current-Gain—Bandwidth Product	Ic= 0.5A; Vce= 5V	10			MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		120		pF
tf	Fall Time	I _C = 3A; I _{B1} = -I _{B2} = 0.6A			1.0	μ S

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