

# **isc Silicon NPN Power Transistor**

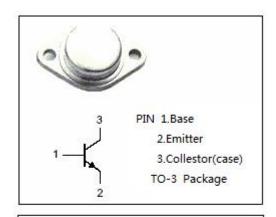
**BU108** 

## **DESCRIPTION**

- High Voltage
- · High Switching Speed
- Collector Current- I<sub>C</sub> = 5A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## **APPLICATIONS**

• Designed for high voltage CRT scanning applications.

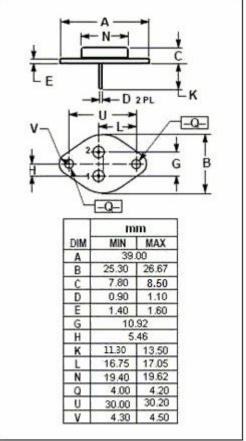


## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

ABOUT INFAMION (TATINGO(Ta 200)							
SYMBOL	PARAMETER	VALUE	UNIT				
$V_{CBO}$	Collector-Base Voltage	1300	٧				
V <sub>CEO</sub>	Collector-Emitter Voltage	750	V				
V <sub>EBO</sub>	Emitter-Base Voltage	5	V				
Ic	Collector Current-Continuous	5	Α				
I <sub>B</sub>	Base Current-Continuous		Α				
I <sub>E</sub>	Emitter Current-Continuous	8.5	Α				
Pc	Collector Power Dissipation @V <sub>CE</sub> ≤100V,T <sub>C</sub> ≤95°C		W				
TJ	Junction Temperature		$^{\circ}$				
T <sub>stg</sub>	Storage Temperature	-65~115	$^{\circ}$				

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	1.6	°C/W





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## **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 50mA ; I <sub>C</sub> = 0	5		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 4.5A; I <sub>B</sub> = 2A		5.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 4.5A; I <sub>B</sub> = 2A		1.3	V
I <sub>CEX</sub>	Collector Cutoff Current	V <sub>CE</sub> = 1300V; V <sub>BE</sub> = -2V		1.0	mA
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 1300V; I <sub>E</sub> = 0		1.0	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 4.5A ; V <sub>CE</sub> = 5V	4		
tf	Fall Time	I <sub>C</sub> = 4.5A		1.2	μ <b>s</b>



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