

## Silicon NPN Power Transistor

### DESCRIPTION

- Collector-Emitter Sustaining Voltage-  
:  $V_{CEO(SUS)} = 700V$  (Min)
- High Power Dissipation-  
:  $P_D = 125W @ T_C = 25^\circ C$

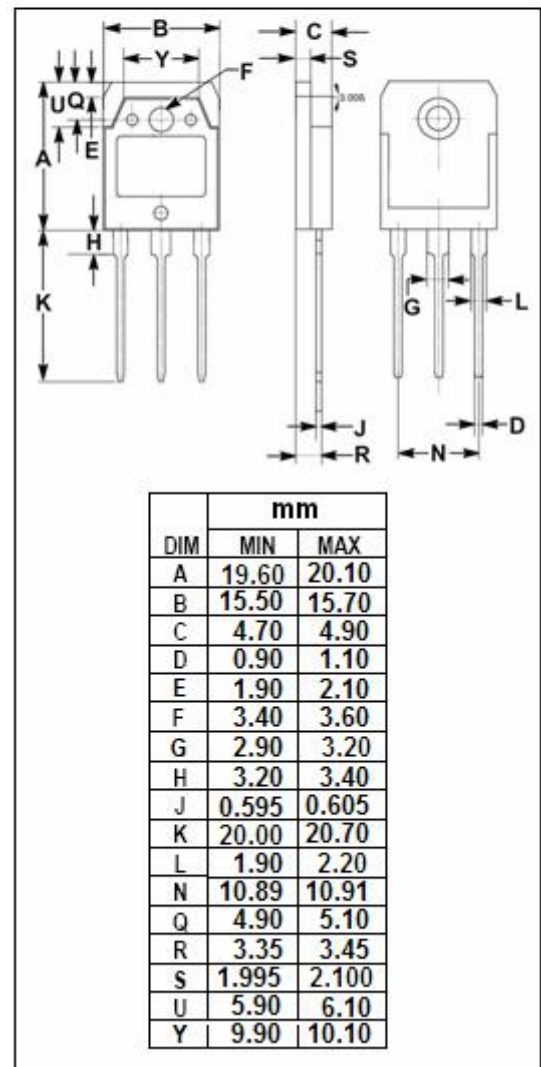
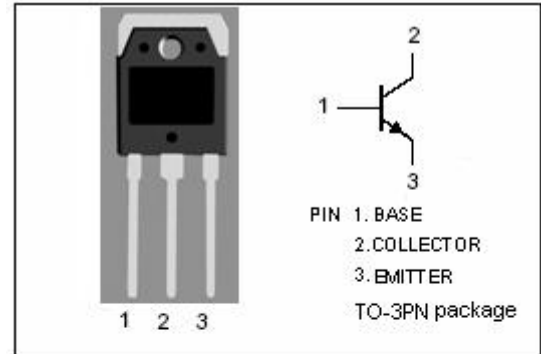
### APPLICATIONS

- Designed for use in large screen color deflection circuits.

### ABSOLUTE MAXIMUM RATINGS( $T_a = 25^\circ C$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CES}$	Collector- Emitter Voltage( $V_{BE} = 0$ )	1500	V
$V_{CEO}$	Collector-Emitter Voltage	700	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current- Continuous	8	A
$I_{CM}$	Collector Current-Peak	15	A
$I_B$	Base Current- Continuous	4	A
$I_{BM}$	Base Current-Peak	6	A
$P_C$	Collector Power Dissipation @ $T_C = 25^\circ C$	125	W
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~150	$^\circ C$

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.0	$^\circ C/W$



### Ordering Information

Product	Package	Packaging
BU508AT4TL	TO-3PN	Tube



## ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C= 30\text{mA}$ ; $I_B= 0$	700			V
$V_{CE(sat)\star}$	Collector-Emitter Saturation Voltage	$I_C= 4.5\text{A}$ ; $I_B= 2.0\text{A}$			1.0	V
$V_{BE(sat)\star}$	Base-Emitter Saturation Voltage	$I_C= 4.5\text{A}$ ; $I_B= 2.0\text{A}$			1.3	V
$I_{CES}$	Collector Cutoff Current	$V_{CE}= 1500\text{V}$ ; $V_{BE}= 0$ $V_{CE}= 1500\text{V}$ ; $V_{BE}= 0$ ; $T_C=125^{\circ}\text{C}$			0.1 2.0	mA
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}= 5.0\text{V}$ ; $I_C= 0$			0.1	mA
$h_{FE}$	DC Current Gain	$I_C= 0.1\text{A}$ ; $V_{CE}= 5\text{V}$	6		30	
$C_{OB}$	Output Capacitance	$I_E= 0$ ; $V_{CB}= 10\text{V}$ ; $f_{test}= 0.1\text{MHz}$		125		pF
$f_T$	Current-Gain—Bandwidth Product	$I_C= 0.1\text{A}$ ; $V_{CE}= 5\text{V}$ ; $f_{test}= 1.0\text{MHz}$		7		MHz

★:Pulsed: Pulse duration = 300 ms, duty cycle 1.5 %

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