BU208A

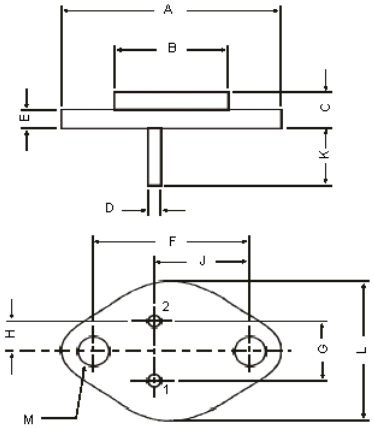
Power Transistor

CRT Deflection Transistors

Feature:

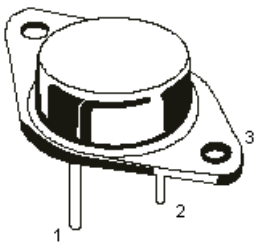
- NPN bipolar, silicon planar power transistors for use in horizontal deflection circuits of CRTs. Suitable for medium, high, and very high resolution monochrome and colour applications.

TO-3 Metal Can Package



Dimensions	Minimum	Maximum
A	-	39.37
B	-	22.22
C	6.35	8.50
D	0.96	1.09
E	-	1.77
F	29.90	30.40
G	10.69	11.18
H	5.20	5.72
J	16.64	17.15
K	11.15	12.25
L	-	26.67
M	3.84	4.19

Dimensions : Millimetres



Pin Configuration

1. Base
2. Emitter
3. Collector

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multicomp

Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Collector Emitter Voltage	$V_{CEO(sus)}$	700	V
Collector Emitter Voltage	V_{CES}	1500	
Emitter Base Voltage	V_{EBO}	5.0	
Collector Current Continuous Peak	I_C I_{CM}	5.0 7.5	A
Base Current Continuous Peak (Negative)	I_B I_{BM}	4.0 3.5	
Power Dissipation at T_C = 95ºC Derate Above 95ºC	P_D	12.5 0.625	W W/°C
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-65 to +115	°C
Thermal Resistance			
Junction to Case	$R_{th(j-c)}$	1.6	ºC/W
Maximum Lead Temperature for Soldering Purpose 1/8" from Case for 5 Seconds	T_L	275	ºC

Electrical Characteristics (T_C = 25°C unless specified otherwise)

Parameter	Symbol	Test Condition	Minimum	Typical	Maximum	Units
Collector Emitter Sustaining Voltage	$V_{CEO(sus)*}$	I_C = 100mA, L = 25mH	700	-	-	V
Collector Cut off Current	I_{CES}	V_{CE} = Rated V_{CES}, V_{BE} = 0	-	-	1.0	mA
Emitter Base Voltage	V_{EBO}	I_E = 10mA, I_C = 0 I_E = 100mA, I_C = 0	5.0	7.0	-	V
DC Current Gain	h_{FE*}	I_C = 4.5A, V_{CE} = 5V	2.25	-	-	-
Collector Emitter Saturation Voltage	$V_{CE(sat)}$*	I_C = 4.5A, I_B = 2A	-	-	1.0	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$*	I_C = 4.5A, I_B = 2A	-	-	1.5	
Dynamic Characteristics						
Current Gain Bandwidth Product	f_T	I_C = 0.1A, V_{CE} = 5V, f = 1MHz	-	4.0	-	MHz
Output Capacitance	C_{ob}	V_{CB} = 10V, I_E = 0, f = 1MHz	-	125	-	pF
Switching Characteristics						
Storage Time	t_s	I_C = 4.5A, I_{B1} = 1.8A, L_B = 10µH	-	8.0	-	µs
Fall Time	t_f	I_C = 4.5A, I_{B1} = 1.8A, L_B = 10µH	-	0.4	-	

*Pulse Test: PW = 300µs; Duty Cycle ≤2%

Specifications

I_C cont. (A)	$V_{CEO(sus)}$ (V)	V_{CES} (V)	$V_{CE(sat)}$ (V) at I_C = 4.5A	P_D at 95°C (W)	Package	Part Number
5	700	1500	1	12.5	TO-3	BU208A

Notes:

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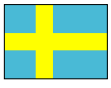

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