

HIGH VOLTAGE NPN SILICON POWER TRANSISTOR





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR BU208, BU208A types are high voltage NPN silicon power transistors, manufactured by the multiepitaxial mesa process, designed for fast switching horizontal deflection circuits in color televisions.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C) Collector-Emitter Voltage	SYMBOL V _{CES}	1500	UNITS V
Collector-Emitter Voltage	V _{CEO}	700	V
Emitter-Base Voltage	V _{EBO}	10	V
Continuous Collector Current	I _C	8.0	А
Peak Collector Current	ICM	15	А
Power Dissipation	PD	150	W
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +175	°C
Thermal Resistance	ΘJC	1.0	°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

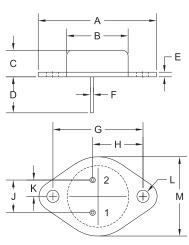
SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX 2.0	UNITS mA
ICES					
IEBO	V _{EB} =5.0V			100	μA
BVCEO	I _C =100mA	700			V
BVEBO	I _E =10mA	10			V
V _{CE(SAT)}	I _C =4.5A, I _B =2.0A (BU208)			5.0	V
V _{CE(SAT)}	I _C =4.5A, I _B =2.0A (BU208A)			1.0	V
V _{BE(SAT)}	I _C =4.5A, I _B =2.0A			1.3	V
fT	V_{CE} =5.0V, I _C =100mA, f=5.0MHz		7.0		MHz
t _s	V _{CC} =140V, I _C =4.5A, h _{FE} =2.5		7.0		μs
^t f	L _C =0.9mH, L _B =3.0µH		0.55		μs

R0 (5-October 2012)





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R2

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	1.516	1.573	38.50	39.96			
B (DIA)	0.748	0.875	19.00	22.23			
С	0.250	0.450	6.35	11.43			
D	0.433	0.516	11.00	13.10			
Е	0.054	0.065	1.38	1.65			
F	0.035	0.045	0.90	1.15			
G	1.177	1.197	29.90	30.40			
Н	0.650	0.681	16.50	17.30			
J	0.420	0.440	10.67	11.18			
K	0.205	0.225	5.21	5.72			
L (DIA)	0.151	0.172	3.84	4.36			
М	0.984	1.050	25.00	26.67			
TO-3 (REV: R2)							

LEAD CODE: 1) Base 2) Emitter Case) Collector

> MARKING: FULL PART NUMBER

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TO-3 CASE - MECHANICAL OUTLINE

OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- · Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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