BU208 BU208A

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)	SYMBOL		UNITS
Collector-Emitter Voltage	V_{CES}	1500	V
Collector-Emitter Voltage	V_{CEO}	700	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	IC	8.0	Α
Peak Collector Current	I _{CM}	15	Α
Power Dissipation	P_{D}	150	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	ΘJC	1.0	°C/W

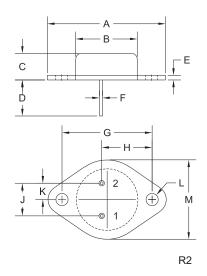
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS VCF=1500V	MIN	TYP	MAX 2.0	UNITS mA			
ICES	V _{EB} =5.0V			100	μA			
IEBO	LD			100				
BVCEO	I _C =100mA	700			V			
BVEBO	I _E =10mA	10			V			
V _{CE(SAT)}	I _C =4.5A, I _B =2.0A (BU208)			5.0	V			
V _{CE(SAT)}	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			
f _T	V_{CE} =5.0V, I_{C} =100mA, f=5.0MHz		7.0		MHz			
ts	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			

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TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	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