

HORIZONTAL DEFLECTION TRANSISTOR

... specifically designed for use in large screen color deflection circuits.

FEATURES:

* Collector-Emitter Sustaining Voltage -

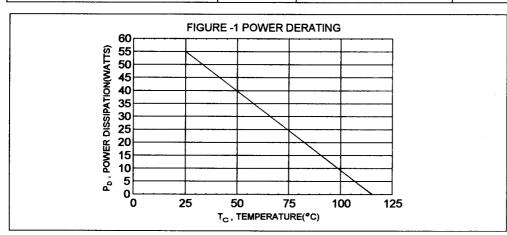
V_{CEX} = 1300 V (Min.) - BU207 = 1500 V (Min.) - BU208 * Glassivated Base-Collector Junction

MAXIMUM RATINGS

Characteristic	Symbol	BU207	BU208 BU208A	Unit
Collector-Emitter Voltage	V _{CEO}	600	700	V
Collector-Emitter Voltage	V _{CEX}	1300	1500	V
Emitter-Base Voltage	V _{EBO}	5.0		٧
Collector Current - Continuous - Peak	lc	5.0 7.5		Α
Base Current - Continuous	l _B	2.5		Α
Total Power Dissipation @T _C =25°C Derate above 25°C	P _D	55 0.611		W/°C
Operating and Storage Junction Temperature Range	T _J ,T _{STG}	- 65 to +115		°C

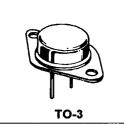
THERMAL CHARACTERISTICS

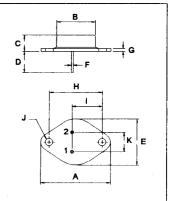
Characteristic	Symbol	Max	Unit
Thermal Resistance Junction to Case	Rθjc	1.64	°C/W



NPN **BU207 BU208 BU208A**

5.0 AMPERE **POWER TRANSISTORS** 1300-1500 VOLTS 55 WATTS





PIN 1.BASE 2.EMITTER COLLECTOR(CASE)

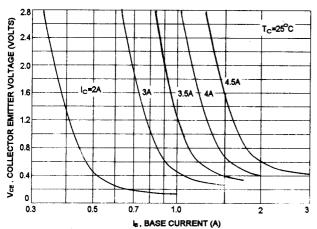
DIM	MILLIMETERS			
	MIN	MAX		
Α	38.75	39.96		
В	19.28	22.23		
С	7.96	9.28		
D	11.18	12.19		
E	25.20	26.67		
F	0.92	1.09		
G	1.38	1.62		
н	29.90	30.40		
	16.64	17.30		
J	3.88	4.36		
K	10.67	11.18		

ELECTRICAL CHARACTERISTICS (T_c = 25°C unless otherwise noted)

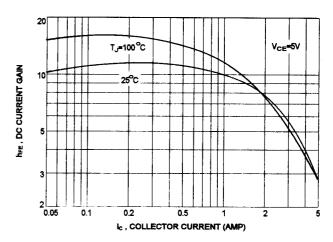
Characteristic		Symbol	Min	Max	Unit	
OFF CHARACTERISTICS						
Collector - Emitter Sustaining Voltage (1) (I _C = 100 mA, I _B = 0)	BU207 BU208,BU208A	V _{CEO(SUS)}	600 700		V	
Collector Cutoff Current (V _{CE} = 1300 V, V _{BE} = 0) (V _{CE} = 1500 V, V _{BE} = 0)	BU207 BU208,BU208A	I _{CES}		1.0 1.0	mA	
Emitter Cutoff Current (V _{EB} = 5.0 V , I _C = 0)		I _{EBO}		10	mA	
ON CHARACTERISTICS (1)						
DC Current Gain (I _C =4.5 A , V _{CE} = 5.0 V)		hFE	2.25			
Collector - Emitter Saturation Voltage (I _C =4.5 A, I _B = 2.0 A)	BU207,BU208 BU208A	V _{CE(sat)}		5.0 1.0	V	
Base - Emitter Saturation Voltage (I _C =4.5 A, I _B = 2.0 A)		V _{BE(sat)}		1.5	٧	
DYNAMIC CHARACTERISTICS						
Current Gain - Bandwidth Product (I _C = 0.1 A, V _{CE} = 5.0 V, f = 1.0 MHz)		f _T	4.0(typ)		MHz	
Output Capacitance (V _{CE} =10 V, I _E =0, f=1.0 MHz)		C _{ob}	125(typ)		pF	
SWITCHING CHARACTERISTICS						
Fall Time (I _C =4.5 A, I _{B1} =1.8 A, L _B =10 uH)		t _f	1.0(typ)		us	

⁽¹⁾ Pulse Test: Pulse width \leq 300 us , Duty Cycle \leq 2.0%

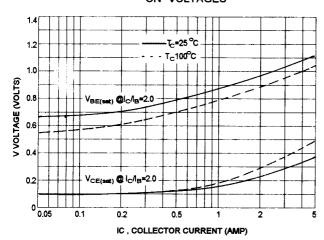




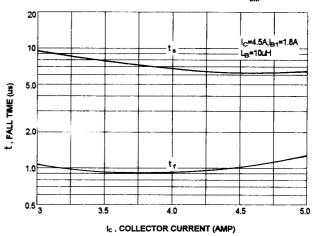
DC CURRENT GAIN



"ON" VOLTAGES



SWITCHING BEHAVIOR VERSUS ICM



FORWARD BIAS SAFE OPERATING AREA

