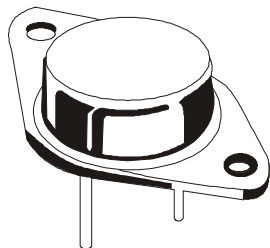


NPN POWER TRANSISTORS



**BU207
BU208**

**TO 3
Metal Can Package**

HORIZONTAL DEFLECTION CIRCUITS IN COLOUR TV RECEIVER APPLICATIONS

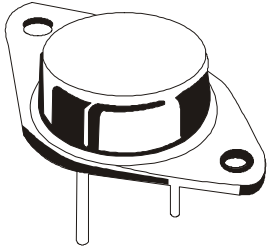
ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	207	208	UNITS
Collector Emitter Voltage (V _{BE} = 0)	V _{CES}	<1300	<1500	V
Collector Emitter voltage (Open Base)	V _{CEO}	<600	<700	V
Collector Base Voltage	V _{CBO}	600	300	V
Emitter Base Voltage	V _{EBO}	<5		V
Collector Current	I _C	<5		A
Collector Current (Peak) (1)	I _{CM}	<7.5		A
Base Current (Peak) (1)	I _{BM}	<4		A
Total Power Dissipation upto Tc=95°C	P _{tot}	<1.25		W
Derate Above 95°C		<0.625		W/°C
Junction Temperature	T _j	<200		°C
Storage Temperature	T _{stg}	-65 To +200		°C
THERMAL RESISTANCE				
Junction to Case	R _{th(j-c)}	1.6		°C/W

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	207	208	UNITS
Collector Cutoff Current	I _{CES}	V _{BE} =0, V _{CE} =1300V	<1.0		mA
	I _{CES}	V _{BE} =0, V _{CE} =1500V		<1.0	mA
Breakdown Voltages					
	V _{CEO(sus)} *	I _C =100mA, I _B =0	>600	>700	V
	V _{CES}	I _C =1mA, V _{BE} =0	>1300	>1500	V
	V _{EBO}	I _E =10mA, I _C =0	>5		V
Saturation Voltages					
	V _{CE(Sat)} *	I _C =4.5A, I _B =2A	<5		V
	V _{BE(Sat)} *	I _C =4.5A, I _B =2A	<1.5		V
DC Current Gain	h _{FE} *	I _C =4.5A, V _{CE} =5V	>2.25		
Output Capacitance	C _o	V _{CB} =10V, I _E =0, f=0.1MHz	125 (Typ)		pF

NPN POWER TRANSISTORS



BU207

BU208

TO 3

Metal Can Package

DESCRIPTION	SYMBOL	TEST CONDITION	207	208	UNITS
Transition Frequency	f _T	I _C =0.1A, V _{CE} =5V f=1MHz	4.0 (Typ)		MHz
SWITCHING TIME					
Fall Time	t _f	I _C =4.5A, I _B =1.8A, L _B =10μH f=1kHz	0.6 (Typ)		μs

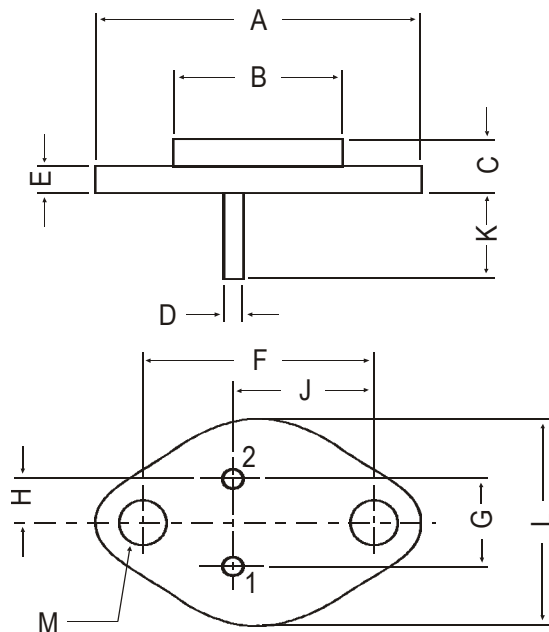
(1) Pulse test : Pulse Width =5ms, Duty Cycle $\leq 10\%$

*Pulse Test: Pulse Width =300ms, Duty Cycle $\leq 2\%$

BU207
BU208

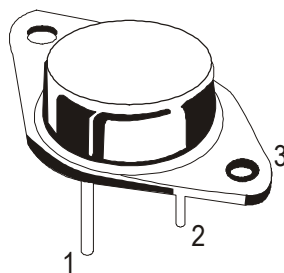
TO 3
Metal Can Package

TO-3 Metal Can Package



All dimensions in mm.

DIM	MIN.	MAX.
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



PIN CONFIGURATION

1. BASE
2. EMITTER
3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-3	100 pcs/pkt	1.3 kg/100 pcs	12.5" x 8" x 1.8"	0.1K	17" x 11.5" x 21"	2K	27.5 kgs

Disclaimer

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