

NPN POWER TRANSISTORS

BU208D

TO 3 Metal Can Package

HORIZONTAL DEFLECTION CIRCUITS IN COLOUR TV RECEIVER APPLICATIONS

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

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage (V _{BE} = 0)	V _{CES}	<1500	V
Collector Emitter voltage (Open Base)	V _{CEO}	<700	V
Emitter Base Voltage	V _{EBO}	<5	V
Collector Current	I _C	<5	А
Collector Current (Peak)	I _{CM}	<7.5	Α
Base Current (Peak)	I _{BM}	<4	А
Total Power Dissipation upto Tc=25°C	P _{tot}	<60	W
Derate Above 25°C		<0.666	W/ºC
Junction Temperature	Tj	<200	°C
Storage Temperature	T _{stg}	-65 To +200	°C
THERMAL RESISTANCE			
Junction to Case	R _{th(j-c)}	1.5	°C/W

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

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
Collector Cutoff Current	I _{CES}	V _{BE} =0, V _{CE} =1500V	<1.0	mA
Emitter Cutoff Curren	Ι _{ΕΒΟ}	I _C =0 , V _{EB} =5V	300	mA
Breakdown Voltages				
	V _{CEO(sus)} *	I _C =100mA,I _B =0	>700	V
	V _{CES}	I _C =1mA,V _{BE} =0	>1500	V
	V _{EBO}	I _E =10mA, I _C =0	>5	V
Saturation Voltages				
	V _{CE(Sat)} *	I _C =4.5A,I _B =2A	<1	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	
Forward Voltage	V _F	I _F =4A	>2	V

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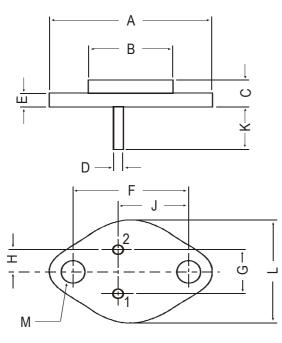
DESCRIPTION	SYMBOL	TEST CONDITION	VALUE		UNITS
SWITCHING TIME					
Fall Time	t _f	$I_{C(end)}$ =4.5A, $I_{B (end)}$ =1.8A, V _{CC} =140V,L _B =10mH, L _C =0.9mH	0.6 (T	ур)	μs

*Pulse Test: Pulse Width =300ms, Duty Cycle <3%

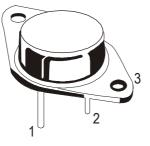
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	DIM	MIN.	MAX.
	Α	_	39.37
	В	_	22.22
	С	6.35	8.50
	D	0.96	1.09
All dimensions in mm.	Е	_	1.77
	F	29.90	30.40
	G	10.69	11.18
	Н	5.20	5.72
	J	16.64	17.15
	Κ	11.15	12.25
	L	_	26.67
All (М	3.84	4.19



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

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Disclaimer

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