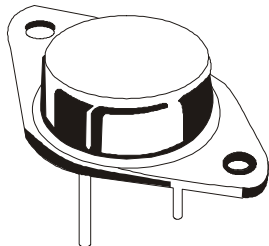


NPN POWER TRANSISTORS



BU208D

**TO 3
Metal Can Package**

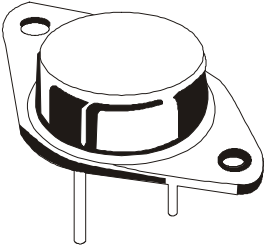
HORIZONTAL DEFLECTION CIRCUITS IN COLOUR TV RECEIVER APPLICATIONS

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	A
Collector Current (Peak)	I_{CM}	<7.5	A
Base Current (Peak)	I_{BM}	<4	A
Total Power Dissipation upto Tc=25°C	P_{tot}	<60	W
Derate Above 25°C		<0.666	W/°C
Junction Temperature	T_j	<200	°C
Storage Temperature	T_{stg}	-65 To +200	°C
THERMAL RESISTANCE			
Junction to Case	$R_{th(j-c)}$	1.5	°C/W

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

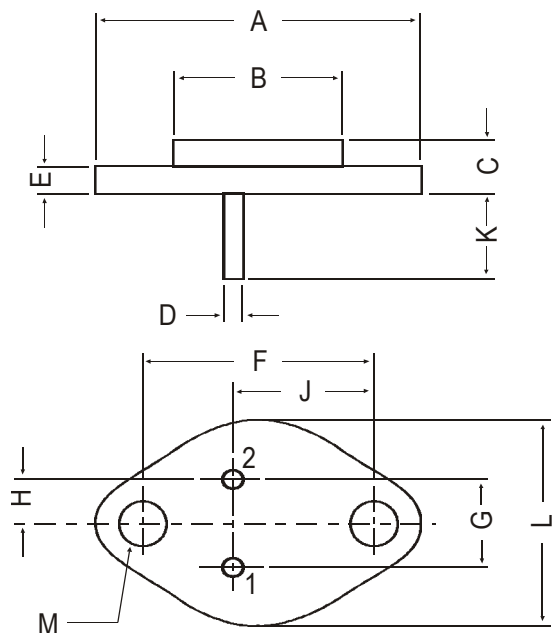
DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
Collector Cutoff Current	I_{CES}	$V_{BE}=0, V_{CE}=1500V$	<1.0	mA
Emitter Cutoff Current	I_{EBO}	$I_C=0, V_{EB}=5V$	300	mA
Breakdown Voltages				
	$V_{CEO(sus)}^*$	$I_C=100mA, I_B=0$	>700	V
	V_{CES}	$I_C=1mA, V_{BE}=0$	>1500	V
	V_{EBO}	$I_E=10mA, I_C=0$	>5	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



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 (Typ)		μs

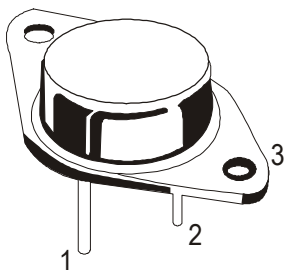
*Pulse Test: Pulse Width =300 μs , Duty Cycle \leq 3%

TO-3 Metal Can Package



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

All dimensions in mm.



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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