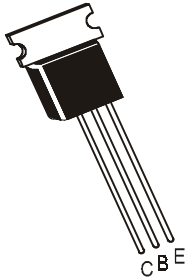


NPN SILICON HIGH VOLTAGE VIDEO TRANSISTORS

CTN391, 392, 393



**TO-237
Plastic Package**

Designed For High Video Amplifier In Television Receivers.

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

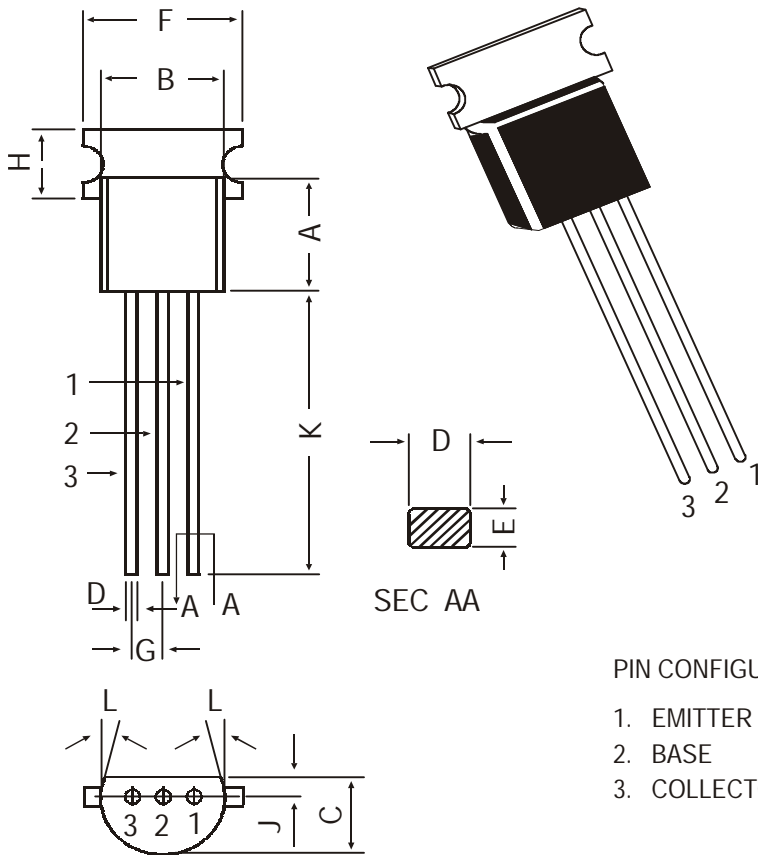
DESCRIPTION	SYMBOL	391	392	393	UNIT
Collector -Base Voltage	V_{CBO}	200	250	300	V
Collector -Emitter Voltage	V_{CEO}	200	250	300	V
Emitter Base Voltage	V_{EBO}	6	6	6	V
Collector Current Continuous	I_C	<-----500----->			mA
Power Dissipation @Ta=25°C	P_D	<-----625----->			mW
BF391, 392 , 393		<-----750----->			mW
CTN391, 392, 393		<-----1.5----->			W
Power Dissipation @ Tc=25°C	P_D	<-----1.5----->			W
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-55 to +150			°C
THERMAL RESISTANCE					
Junction to ambient	$R_{th(j-a)}$		357		
BF391, 392, 393			200		°C/W
CTN391, 392, 393			166.7		°C/W
Junction to case	$R_{th(j-c)}$		83.3		°C/W

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

DESCRIPTION	SYMBOL	TEST CONDITION	391	392	393	UNIT
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C=1.0mA, I_B=0$	>200	>250	>300	V
Collector -Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	>200	>250	>300	V
Emitter-Base Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	>6	>6	>6	V
Collector Cut off Current	I_{CBO}	$V_{CB}=160V, I_E=0$	<0.1			μA
		$V_{CB}=200V, I_E=0$		<0.1		
Emitter Cut off Current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$I_C=50mA, V_{CE}=2V$		40		
		$I_C=250mA, V_{CE}=2V$		40	250	
		$I_C=500mA, V_{CE}=2V$		25		
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$			0.5	V
		$I_C=1A, I_B=100mA$			1	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=200mA,$		50	400	MHz

**TO-237
Plastic Package**

TO-237 Plastic Package



All dimensions in mm.

DIM	MIN.	MAX.
A	4.32	5.33
B	4.45	5.20
C	3.18	4.19
D	0.41	0.55
E	0.35	0.50
F	—	5.40
G	1.14	1.40
H	—	2.54
K	12.70	—
L	5 DEG	
J	1.14	1.53

PIN CONFIGURATION

1. EMITTER
2. BASE
3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-237 Bulk	1K/polybag	240 gm/1K pcs	3" x 7.5" x 7.5"	5K	17" x 15" x 13.5"	80K	26.2 kgs
TO-237 T&A	2K/ammo box	725 gm/2K pcs	12.5" x 8" x 1.8"	2K	17" x 15" x 13.5"	32K	13.8 kgs

Disclaimer

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