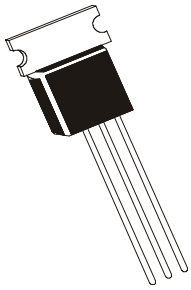
PNP/NPN COMPLEMENTARY SILICON EPITAXIAL TRANSISTOR

CSA928A (PNP)
CSC2328A (NPN)
TO-237
BCE



3W AUDIO Output Amplifier Application

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

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	VCBO	30	V
Collector -Emitter Voltage	VCEO	30	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current Continuous	IC	1.5	A
Peak	ICM	2.0	A
Power Dissipation	PD	1.0	W
Operating And Storage Junction Temperature Range	Tj, Tstg	-55 to +150	deg C

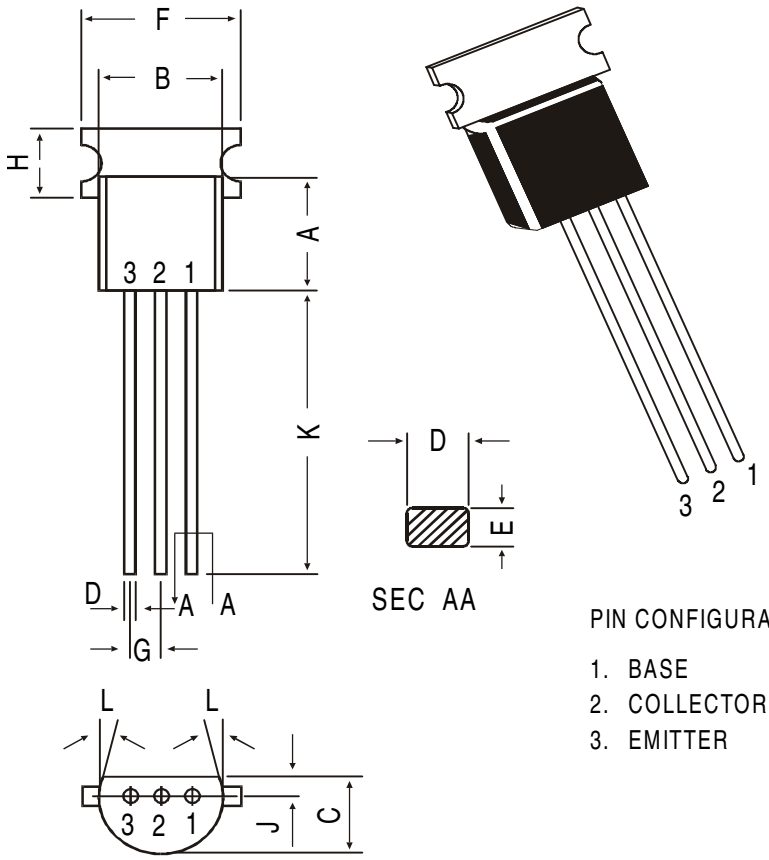
ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Emitter Voltage	VCEO	IC=10mA, IB=0	30	-	-	V
Collector -Base Voltage	VCBO	IC=100uA, IE=0	30	-	-	V
Emitter Base Voltage	VEBO	IE=1mA, IC=0	5.0	-	-	V
Collector Cut off Current	ICBO	VCB=30V, IE=0	-	-	100	nA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-	-	100	nA
DC Current Gain	hFE*	IC=500mA,VCE=2V	100	-	320	
Collector Emitter Saturation Voltage	VCE(Sat) *	IC=1.5A, IB=30mA	-	-	2.0	V
Base Emitter on Voltage	VBE(on)*	IC=500mA, VCE=2V	-	-	1.0	V
Dynamic Characteristics						
Output Capacitance	Cob NPN	VCB=10V, IE=0	-	30	-	pF
	PNP	f=1MHz	-	48	-	pF
Gain Bandwidth Product	ft	VCE=2V,IC=500mA,	-	120	-	MHz

CLASSIFICATION	**O**	**Y**
hFE *	**100-200**	**160-320**

***Pulse Test : Pulse Width =300us, Duty Cycle=2%**

TO-237 Plastic Package



All diminsions 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. BASE
2. COLLECTOR
3. EMITTER

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"	5.0K	17" x 15" x 13.5"	80.0K	26.2 kgs
TO-237 T&A	2K/ammo box	725 gm/2K pcs	12.5" x 8" x 1.8"	2.0K	17" x 15" x 13.5"	32.0K	13.8 kgs

Disclaimer

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