

Continental Device India Limited

An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



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)

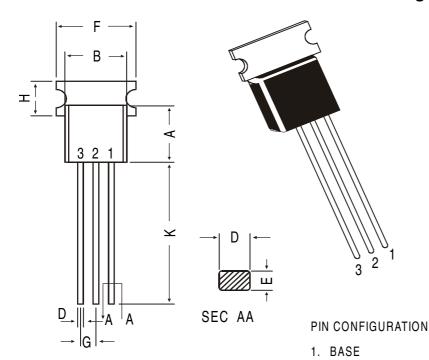
DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector -Base Voltage	VCBO	30	V	
Collector -Emitter Voltage	VCEO	30	V	
Emitter Base Voltage	VEBO	5.0	V	
Collector Current Continuous Peak	IC	1.5	Α	
	ICM	2.0	Α	
Power Dissipation	PD	1.0	W	
Operating And Storage Junction	Tj, Tstg	-55 to +150	deg C	
Temperature Range				

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		0	Υ			_
hFE *		100-200	160-320			

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

TO-237 Plastic Package



	DIM	MIN.	MAX.		
	Α	4.32	5.33		
	В	4.45	5.20		
	O	3.18	4.19		
	D	0.41	0.55		
m.	Е	0.35	0.50		
	F		5.40		
inπ	G	1.14	1.40		
Suc	Ι	1	2.54		
nsic	K	12.70	ı		
All diminsions in mm.	L	5 DEG			
₩ W	J	1.14	1.53		

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

COLLECTOR
EMITTER

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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