

Continental Device India Limited An IS/ISO 9002 and IECQ Certified Manufacturer



## NPN SILICON EPITAXIAL TRANSISTORS



#### Low Frequency Power Amplifier Complementary CSB647/A

### ABSOLUTE MAXIMUM RATINGS(Ta=25 deg C)

DESCRIPTION	SYMBOL	CSD667	CSD667A	UNIT
Collector -Base Voltage	VCBO	120	120	V
Collector -Emitter Voltage	VCEO	80	100	V
Emitter Base Voltage	VEBO	5.0	5.0	V
Collector Current	IC	1.0	1.0	А
Peak	IC	2.0	2.0	А
Collector Power Dissipation	PC	0.9	0.9	W
<b>Operating And Storage Junction</b>	Tj, Tstg	-55 to +150	-55 to +150	deg C
Temperature Range				

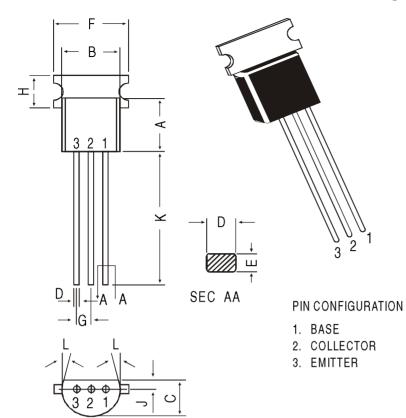
#### ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

DESCRIPTION		SYMBOL	TEST CONDITION	CSD667	CSD667A	UNIT
Collector -Base Voltage		VCBO	IC=10uA, IE=0	>120	>120	V
Collector -Emitter Voltage		VCEO	IC=1mA, IB=0 >80		>100	V
Emitter Base Voltage Collector Cut off Current		VEBO	IE=10uA, IC=0	>5.0 <10	>5.0	V uA
		ICBO	VCB=100V, IE=0		<10	
DC Current Gain		hFE*	IC=150mA,VCE=5V**	60-320	60-200	
			IC=500mA,VCE=5V**	>30	>30	
Collector Emitter Saturation Voltage		VCE(Sat)	IC=500mA,IB=50mA**	<1.0	<1.0	V
Base to Emitter Voltage		VBE	IC=150mA,VCE=5V**	<1.5	<1.5	V
Dynamic Characteristics						
Gain Bandwidth Product		ft	IC=150mA,VCE=5V**	typ140	typ140	MHz
Output Capacitance		Cob	VCB=10V, f=1MHz	typ12	typ12	pF
CLASSIFICATION		В	С	D		
hFE* CS	SD667	60-120	100-200	160-320		
hFE* CS	SD667A	60-120	100-200	-		

\*\*Pulse Test

CSD667 CSD667A TO-237 BCE

#### **TO-237 Plastic Package**



	DIM	MIN.	MAX.	
All diminsions in mm.	Α	4.32	5.33	
	В	4.45	5.20	
	С	3.18	4.19	
	D	0.41	0.55	
	Е	0.35	0.50	
	F	—	5.40	
	G	1.14	1.40	
	Н	_	2.54	
	Κ	12.70	_	
	L	5 DEG		
All (	J	1.14	1.53	

# Packing Notail

racking 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		
T0-237 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

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 is 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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Data Sheet