

Continental Device India Limited





SOT-23 Formed SMD Package

CSC2712

SILICON PLANAR EPITAXIAL TRANSISTOR

N-P-N transistor

Marking CSC2712Y=1E CSC2712GR(G)=1F

CSC2712GR(G)=1F CSC2712BL(L)=1G

PACKAGE OUTLINE DETAILS ALL DIMENSIONS IN mm

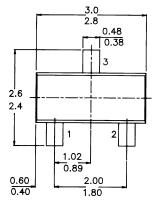
Pin configuration

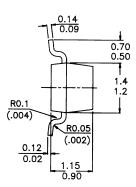
1 = BASE

2 = EMITTER

3 = COLLECTOR







ABSOLUTE MAXIMUM RATINGS

V_{CBO}	max.	60 V
V_{CEO}	max.	50 V
V_{EBO}	max.	5 V
I_C	max.	150 mA
P_{tot}	max.	150 mW
T_{j}	max.	150 ° C
J		
h_{FE}	min.	70
	max.	700
f_T	min.	80 MHz
$\boldsymbol{\mathit{F}}$	max	10 dB
	V_{CEO} V_{EBO} I_{C} P_{tot} T_{j} h_{FE}	$egin{array}{lll} V_{CEO} & max. & & & & & & & & & & & & & \\ V_{EBO} & max. & & & & & & & & & & & & & \\ I_C & max. & & & max. & & & & & & & & & & & & \\ T_j & max. & & & & & & & & & & & & & & & & & \\ h_{FE} & min. & & & & & & & & & & & & & & & \\ f_T & min. & & & & & & & & & & & & & & & \\ \end{array}$

RATINGS (at $T_A = 25$ °C unless otherwise specified)				
Limiting values				
Collector-base voltage (open emitter)	V_{CBO}	max.	60 V	
Collector-emitter voltage (open base)	$V_{C\!E\!O}$	max.	50 V	
Emitter-base voltage (open collector)	V_{EBO}	max.	5 V	
Collector current (d.c.)	I_C	max.	150 mA	
Base current	I_B	max.	30 mA	
Total power dissipation at $T_{amb} = 25$ °C	P_{tot}	max.	150 mW	•
Junction temperature	T_j	max.	150 ° C	
Storage temperature	Tstg	-50 to	+150 ° C	
CHARACTERISTICS (at $T_A = 25^{\circ}C$ unless otherwise Collector cut-off current	specified)			
$I_E = 0; \ V_{CB} = 60 \ V$	I_{CBO}	max.	100 nA	
Emitter cut-off current				
$I_C = 0$; $V_{EB} = 5 V$	I_{EBO}	max.	100 nA	
Saturation voltage				
$I_C = 100 \text{ mA}; I_B = 10 \text{ mA}$	V _{CEsat}	max.	250 mV	
D.C. current gain				
$I_C = 2 \text{ mA}; V_{CE} = 6 \text{ V}$	h_{FE}	min.	70	
-C =	-1L	max.	700	
	Y	min.	120	
	1	max.	240	
		шах.		
	GR(G)	min.	200	
		max.	400	
	BL(L)	min.	350	
		max.	700	
Transition frequency				
$I_C = 1 \text{ mA}; V_{CE} = 10 \text{ V}$	f_T	min.	80 MHz	Z
Noise figure at $R_g = 10 \text{ kW}$				
$V_{CE} = 6 V; I_C = 0.1 mA$				
f = 1 kHz	N_F	max.	10 dB	

Notes

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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