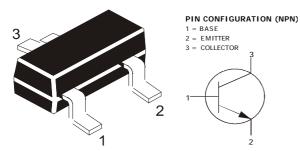


### Continental Device India Limited

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



## NPN SILICON PLANAR EPITAXIAL TRANSISTORS



SOT-23 Formed SMD Package

CSC3936

Marking CSC3936 = K

## Optimum for RF Amplification, Oscilation, Mixing and IF of FM/AM Radios

ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNITS	
Collector Base Voltage	V <sub>CBO</sub>	30	V	
Collector Emitter Voltage	V <sub>CEO</sub>	20	V	
Emitter Base Voltage	$V_{EBO}$	5	V	
Collector Current (DC)	Ic	30	mA	
Collector power dissipation	Pc	150	mW	
Junction Temperature	T <sub>j</sub>	150	°C	
Storage Temperature	T <sub>stg</sub>	- 55 to +150	•CDatas	

### Electrical Characterstics (T<sub>a</sub>=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Voltage	$V_{CBO}$	$Ic = 10\mu A, I_E = 0$	30			V
Collector Emitter Voltage	$V_{CEO}$	$Ic = 2mA$ , $I_B = 0$	20			V
Emitter Base Voltage	$V_{EBO}$	$I_E = 10\mu A, I_C = 0$	5			V
DC Current Gain	*h <sub>FE</sub>	$'VcE = 10V, I_C = 1mA$	70		250	
Transition Frequency	f <sub>T</sub>	$V_{CB} = 10V, I_E = -1mA, f = 200 MHz$	150			MHz
Common Emitter Reverse- Transfer Capacitance	$C_{re}$	$V_{CE} = 10V$ , $I_{E} = -1mA$ , $f = 10.7 MHz$		1.3		pF

\*h<sub>FE</sub> Classifications B: 70 to 160 C: 110 to 250

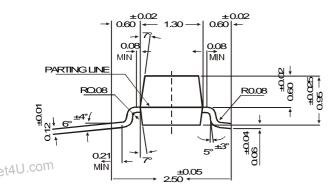
Marking KB KC

DataSheet4U.com www.DataSheet4U.com

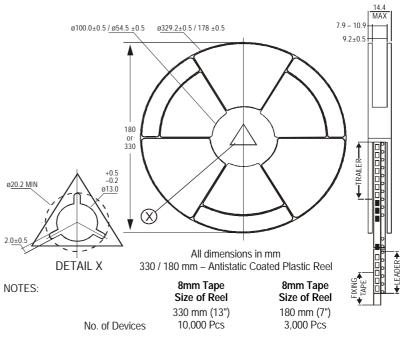
## SOT-23 Formed SMD Package

## **SOT-23 Formed SMD Package**

# 



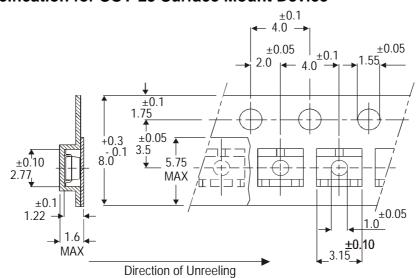
# SOT-23 Package Reel Information Reel Specifications for W Packing (13") and 7"



- 1. The bandolier of 330 mm reel contains at least 10,000 devices.
- 2. The bandolier of 180 mm reel contains at least 3,000 devices.
- Dat 3.5 h No more than 0.5% missing devices / reel. 50 empty compartments for 330 mm reel.

  15 empty compartments for 180 mm reel.
  - Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices.
  - 5. The carrier tape (leader) starts with at least 75 empty positions (equivalent to 330 mm). In order to fix the carrier tape a self adhesive tape of 20 to 50 mm is applied. At the end of the bandolier at least 40 empty positions (equivalent to 160 mm) are there.

### **Tape Specification for SOT-23 Surface Mount Device**



## **Packing Detail**

All dimensions in mm

	<b>J</b>								
	PACKAGE	STANDARDPACK		INNER CARTON BOX		OUTER CARTON BOX			
		Details	Net Weight /Qty	Size	Qty	Size	Qty	Gr Wt	
	SOT-23 T&R	3K/reel	136 gm/3K pcs	3" x 7.5" x 7.5"	12 K	17" x 15" x 13.5"	192 K	12 kgs	
taS	heet4U.com			9" x 9" x 9"	51 K	19" x 19" x 19"	4087KYW.	D <b>26</b> 0 See et	4U.co
		10K/reel	415 gm/10K pcs	13" x 13" x 0.5"	10 K	17" x 15" x 13.5"	300 K	16 kgs	

**Notes CSC3936** 

> **SOT-23** Formed SMD Package

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### **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 in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracie: 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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