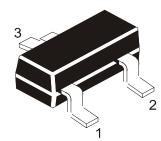
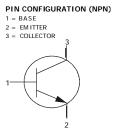




NPN SILICON PLANAR EPITAXIAL TRANSISTOR





CSD1306 (SAW)

SOT-23 Formed SMD Package

Marking CSD1306E=06

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Base Voltage	V _{CBO}	30	V
Collector Emitter Voltage	V _{CEO}	15	V
Emitter Base Voltage	V _{EBO}	5	V
Collector Current Continuous	Ι _C	700	mA
Collector Current Peak	I _{CP}	1	А
Power Dissipation @ T _a =25 ^o C	P _D	200	mW
Operating and Storage Junction Temperature Range	$T_{j,}T_{stg}$	- 55 to +150	٥C

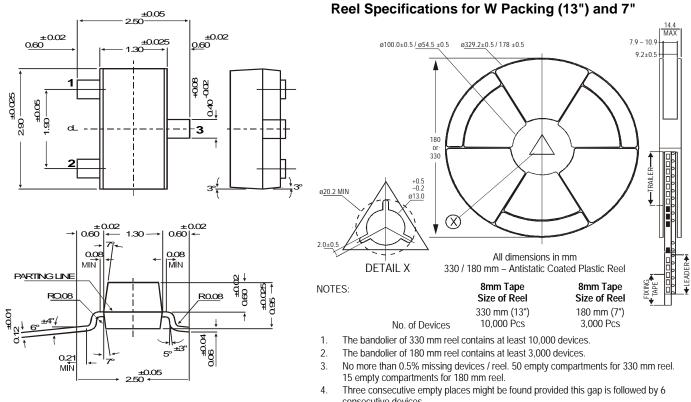
Electrical Characterstics (T_a=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Voltage	V _{CBO}	I _C =10μΑ, I _E =0	30			V
Collector Emitter Voltage	V _{CEO}	I _C =10mA, I _B =0	15			V
Emitter Base Voltage	V _{EBO}	Ι _Ε =1μΑ, Ι _C =0	5			V
Collector Cut off Current	I _{CBO}	V _{CB} =20V, I _E =0			1.0	μA
Emitter Cut off Current	I _{EBO}	V_{EB} =5V, I _C =0			1.0	μA
Base Emitter On Voltage	V _{BE (on)}	$V_{CE} = 1V$, $I_C = 150$ mA		1.0	V	
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _C =500mA, I _B =50mA			0.5	V
DC Current Gain	h _{FE}	V _{CE} =1V, I _C =150mA 25			1200	
Transition Frequency	f _T	V _{CE} =1V, I _C =150mA, 250			MHz	
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz 10		10	pF	
Input Capacitance	C _{ib}	$V_{FB}=0.5V, I_{C}=0, f=1MHz$			100	pF

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SOT-23 Package Reel Information

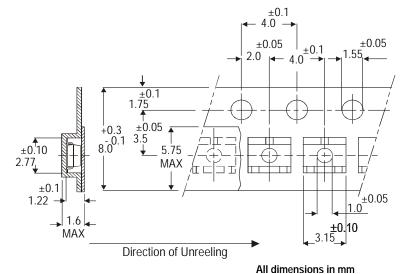
SOT-23 Formed SMD Package



SOT-23 Formed SMD Package

consecutive devices.
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

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
			9" x 9" x 9"	51 K	19" x 19" x 19"	408 K	28 kgs
	10K/reel	415 gm/10K pcs	13" x 13" x 0.5"	10 K	17" x 15" x 13.5"	300 K	16 kgs

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SOT-23 Formed SMD Package

Disclaimer

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