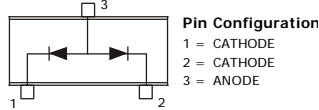
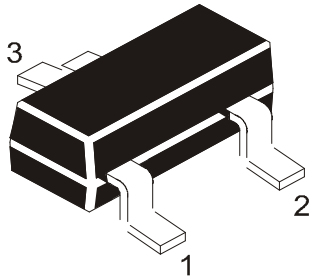


SILICON PLANAR DUAL SWITCHING DIODES

**CMBD2835
CMBD2836**



**SOT-23
Formed SMD Package**

Marking

CMBD2835 - A3

CMBD2836 - A2

High-Speed Switching Dual Diodes, Common Anode

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Reverse Voltage	CMBD2835 CMBD2836	V_R	35
			75
Forward Current	I_F	100	mA
Total Device Dissipation $T_a=25^\circ\text{C}$ *	P_D	225	mW
Derate above 25°C		1.8	mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{th(j-a)}$	556	$^\circ\text{C/W}$
Total Device Dissipation $T_a=25^\circ\text{C}$ **	P_D	300	mW
Derate above 25°C		2.4	mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{th(j-a)}$	417	$^\circ\text{C/W}$
Junction and Storage Temperature	T_j, T_{stg}	- 55 to +150	$^\circ\text{C}$

* FR-5 Board=25.4 x 19.05 x 1.58 mm (1.0 x 0.75 x 0.062 inches)

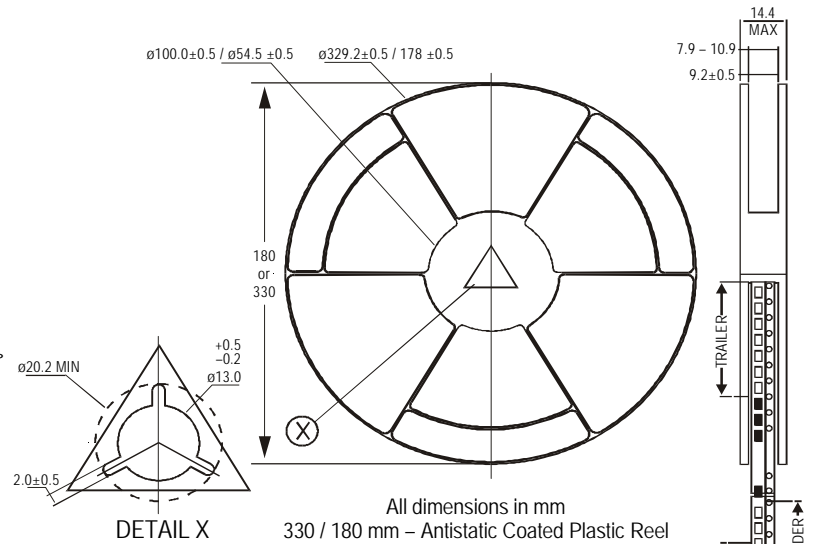
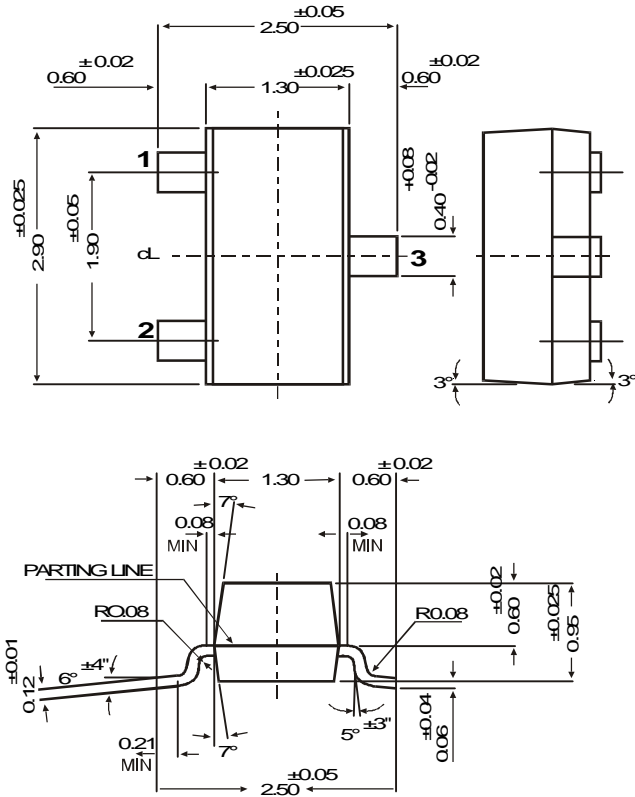
** Alumina Substrate=10.16 x 7.62 x 0.61 mm (0.4 x 0.3 x 0.024 inches) 99.5% alumina.

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V_{BR}	$I_R=100\mu\text{A}$ CMBD2835 CMBD2836	35			V
			75			V
Reverse Voltage Leakage Current	I_R	CMBD2835 $V_R=30\text{V}$			100	nA
		CMBD2836 $V_R=50\text{V}$			100	nA
Diode Capacitance	C_T	$V_R=0\text{V}, f=1\text{MHz}$			4.0	pF
Forward Voltage	V_F	$I_F = 10\text{ mA}$			1.0	V
		$I_F = 50\text{ mA}$			1.0	V
		$I_F = 100\text{ mA}$			1.2	V
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}, i_{R(REC)}=1.0\text{ mA}$			4.0	ns

SOT-23 Formed SMD Package

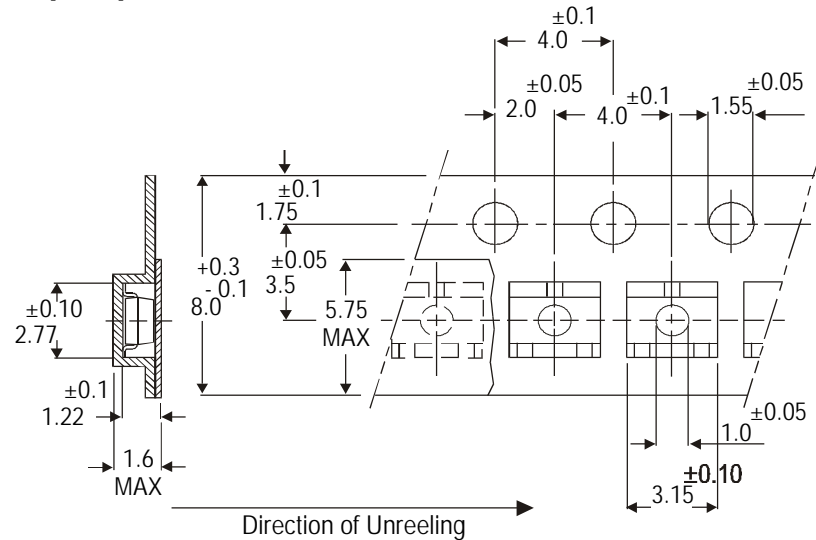
SOT-23 Package Reel Information
Reel Specifications for W Packing (13" and 7")



NOTES:

- | | 8mm Tape | 8mm Tape |
|----------------|---------------------|---------------------|
| | Size of Reel | Size of Reel |
| No. of Devices | 330 mm (13") | 180 mm (7") |
| | 10,000 Pcs | 3,000 Pcs |
- The bandolier of 330 mm reel contains at least 10,000 devices.
 - The bandolier of 180 mm reel contains at least 3,000 devices.
 - 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.
 - 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

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOT-23 T&R	3K/feol	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/feol	415 gm/10K pcs	13" x 13" x 0.5"	10 K	17" x 15" x 13.5"	300 K	16 kgs

Disclaimer

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