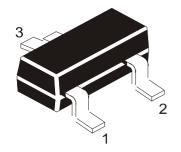
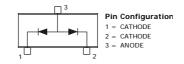


TÜV MANAGEMENT SERVICE

An ISO/TS16949 and ISO 9001 Certified Company

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	V_R	35	V
CMBD2836		75	V
Forward Current	I _F	100	mA
Total Device Dissipation T _a =25°C *	P _D	225	mW
Derate above 25°C		1.8	mW/°C
Thermal Resistance Junction to Ambient	R _{th(j-a)}	556	°C/W
Total Device Dissipation T _a =25°C **	P _D	300	mW
Derate above 25°C		2.4	mW/°C
Thermal Resistance Junction to Ambient	R _{th(j-a)}	417	
Junction and Storage Temperature	T _j , T _{stg}	- 55 to +150	°C

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

ELECTRICAL CHARACTERISTICS (T_a=25° C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V_{BR}	I _R =100μA				
•		CMBD2835	35			V
		CMBD2836	75			V
Reverse Voltage Leakage Current	I _R	CMBD2835				
		V _R =30V			100	nA
		CMBD2836				
		V _R =50V			100	nA
Diode Capacitance	C _T	V _R =0V, f=1MHz			4.0	pF
Forward Voltage	V _F	I _F = 10 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}	$I_F=I_R=10$ mA, $I_{R(REC)}=1.0$ mA			4.0	ns

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

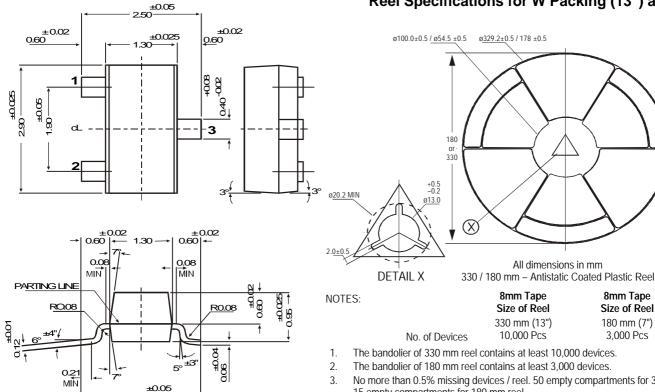
SOT-23 Formed SMD Package

7.9 – 10.9

9.2±0.5

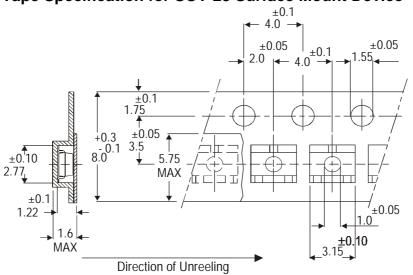
SOT-23 Formed SMD Package

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



- 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

<u> </u>							
PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Oty	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

Notes

CMBD2835 CMBD2836

SOT-23 Formed SMD Package

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 are 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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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