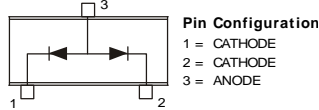
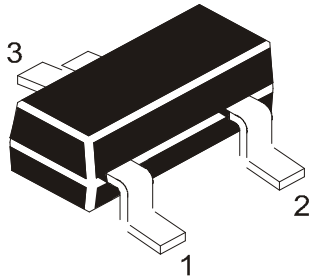


**SILICON PLANAR DUAL SWITCHING DIODES**

**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 $25^\circ\text{C}$		1.8	mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{th(j-a)}$	556	$^\circ\text{C}/\text{W}$
Total Device Dissipation $T_a=25^\circ\text{C}$ **	$P_D$	300	mW
Derate above $25^\circ\text{C}$		2.4	mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{th(j-a)}$	417	$^\circ\text{C}/\text{W}$
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



### **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).

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