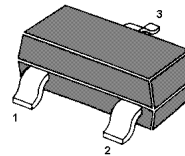
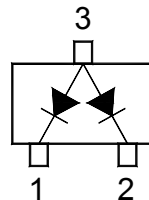


MMBD2835, MMBD2836

Monolithic Dual Switching Diodes



MMBD2835 Marking Code: "1H"

MMBD2836 Marking Code: "1J"

1. Cathode 2. Cathode 3. Anode

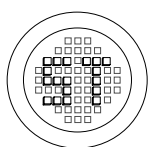
SOT-23 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Reverse Voltage	MMBD2835 V_R	35	V
	MMBD2836 V_R	75	V
Forward Current	I_F	100	mA
Total Device Dissipation FR-5 Board ¹⁾ $T_A=25^\circ\text{C}$ Derate above 25°C	P_D	225	mW
		1.8	mW/ $^\circ\text{C}$
Thermal Resistance ,Junction to Ambient	$R_{\theta JA}$	556	$^\circ\text{C/W}$
Total Device Dissipation Alumina Substrate ²⁾ $T_A=25^\circ\text{C}$ Derate above 25°C	P_D	300	mW
		2.4	mW/ $^\circ\text{C}$
Thermal Resistance ,Junction to Ambient	$R_{\theta JA}$	417	$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_J, T_S	-55 to +150	$^\circ\text{C}$

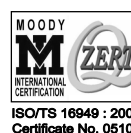
¹⁾ FR-5=1 X 0.75 X 0.062 in.

²⁾ Alumina=0.4 X 0.3 X 0.024 in, 99.5% alumina.



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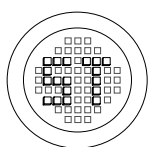


Dated : 19/10/2005

MMBD2835, MMBD2836

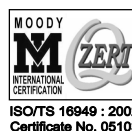
Characteristics at $T_j = 25^\circ\text{C}$

		Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F=10\text{mA}$ at $I_F=50\text{mA}$ at $I_F=100\text{mA}$		V_F	-	-	1.0	V
		V_F	-	-	1.0	V
		V_F	-	-	1.2	V
Reverse Voltage Leakage Current at $V_R=30\text{V}$ at $V_R=50\text{V}$	MMBD2835	I_R	-	-	100	nA
	MMBD2836	I_R	-	-	100	nA
Reverse Breakdown Voltage at $I_R=100\mu\text{A}$	MMBD2835	$V_{(BR)}$	35	-	-	V
	MMBD2836	$V_{(BR)}$	75	-	-	V
Diode Capacitance at $f=1\text{MHz}$		C_T	-	-	4.0	pF
Reverse Recovery Time at $I_F=I_R=10\text{mAdc}$, $I_{R(REC)}=1\text{mAdc}$		t_{rr}	-	-	4.0	ns



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ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001:2004
Certificate No. 7116

ISO 9001:2000
Certificate No. 050898

Dated : 19/10/2005