



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

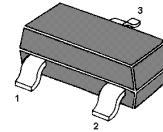
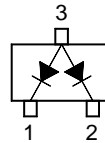
TEL: 852-2790 0314 FAX: 852-2790 0206

MMBD2835, MMBD2836

Dual Switching Diodes

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance



Marking Code: **A1**
SOT-23 Plastic Package

Applications

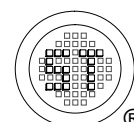
- Ultra high speed switching application

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	35 75	V
Forward Current	I_F	100	mA
Power Dissipation	P_d	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage	V_F	-	1	V
at $I_F = 10\text{ mA}$	V_F	-	1	V
at $I_F = 50\text{ mA}$	V_F	-	1.2	V
Reverse Current	I_R	-	100	nA
at $V_R = 30\text{ V}$		-	100	nA
at $V_R = 50\text{ V}$		-	100	nA
Reverse Breakdown Voltage	$V_{(BR)R}$	35 75	-	V
at $I_R = 100\text{ }\mu\text{A}$		75	-	V
Diode Capacitance	C_T	-	4	pF
at $f = 1\text{ MHz}$				
Reverse Recovery Time	t_{rr}	-	4	ns
at $I_F = I_R = 10\text{ mA}$, $I_{R(REC)} = 1\text{ mA}$				



Dated : 10/10/2008



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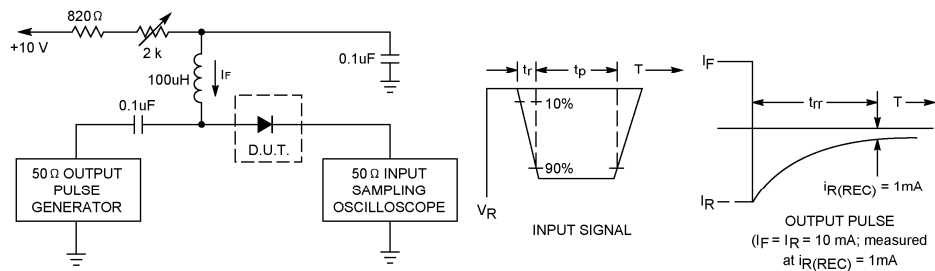
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FIGURE 1. RECOVERY TIME EQUIVALENT TEST CIRCUIT



- Notes: 1. A 2.0kΩ variable resistor adjusted for a Forward Current (I_F) of 10mA.
2. Input pulse is adjusted so $I_{R(\text{peak})}$ is equal to 10mA.
3. $t_p \gg t_{rr}$

FIGURE 2. FORWARD VOLTAGE

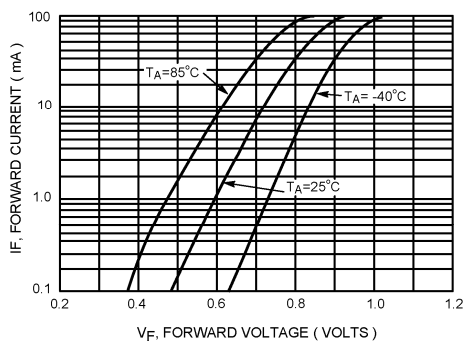


FIGURE 3. LEAKAGE CURRENT

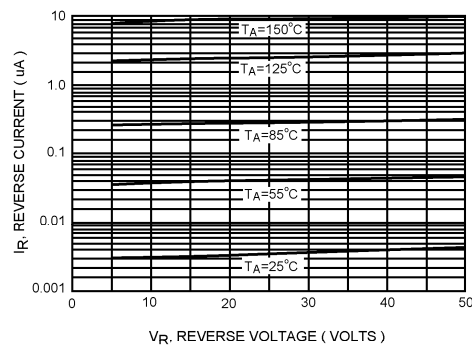
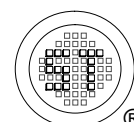
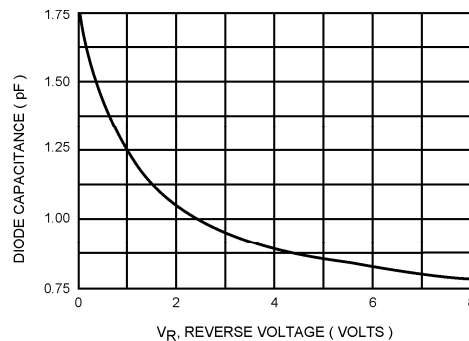


FIGURE 4. CAPACITANCE



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