



迈拓电子
MAITUO ELECTRONIC

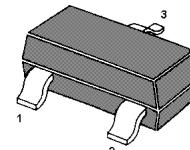
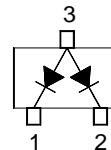
Silicon Epitaxial Planar Switching Diode

Features

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

Applications

- Ultra high speed switching application



SOT-23 Plastic Package

Marking Code: **MMBD2835 A3x**
MMBD2836 A2x

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

Parameter	Symbol	Value	Unit
Reverse Voltage MMBD2835 MMBD2836	V_R	35 75	V
Forward Current	I_F	100	mA
Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

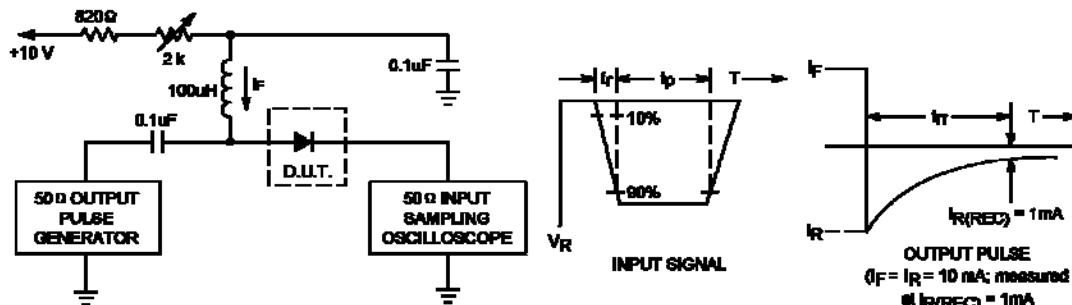
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	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 1 1.2	V
Reverse Current at $V_R = 30 \text{ V}$ at $V_R = 50 \text{ V}$	I_R	- -	100 100	nA
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	35 75	- -	V
Diode Capacitance at $V_R = 0$, $f = 1 \text{ MHz}$	C_T	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$, $I_{R(\text{REC})} = 1 \text{ mA}$	t_{rr}	-	4	ns



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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. $t_p > t_F$

FIGURE 2. FORWARD VOLTAGE

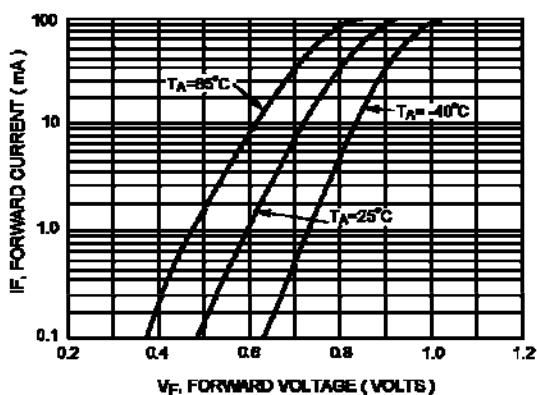


FIGURE 3. LEAKAGE CURRENT

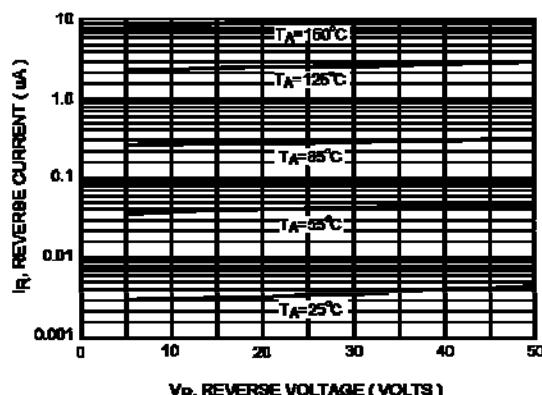
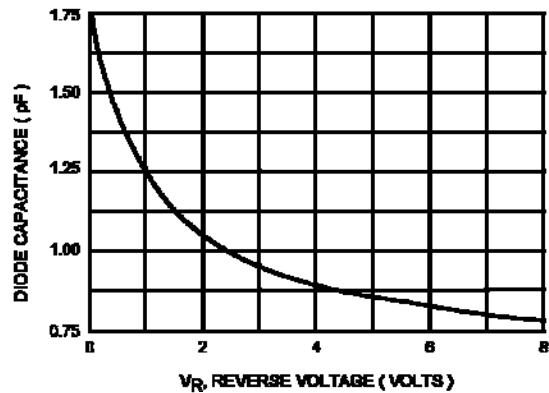


FIGURE 4. CAPACITANCE





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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

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