

## Small Signal Switching Diodes

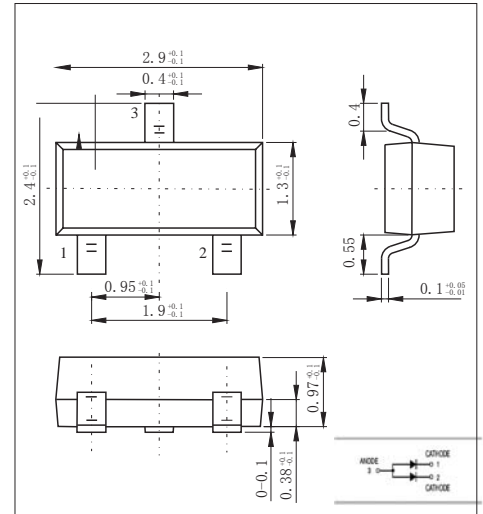
VOLTAGE RANGE: 35/75V  
Power Dissipation : 300mW

### FEATURES

- High speed switching:  $t_{rr}=4.0\text{ns}(\text{max})$
- Low capacitance:  $C_T=2.5\text{pF}(\text{typ.})$

### MECHANICAL DATA

- Case: SOT-23 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



### MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Limits		Unit
		MMBD2835	MMBD2836	
Non-Repetitive Peak reverse voltage	$V_{RM}$	35	75	V
DC Reverse Voltage	$V_R$	30	50	V
Average rectified output Current	$I_o$	100		mA
Power Dissipation	$P_d$	300		mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417		°C/W
Junction temperature	$T_J$	150		°C
Storage temperature	$T_{STG}$	-55 to +150		°C

### Electrical Specification ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breandown Voltage	$V_{(BR)}$	35				$I_R=100\mu\text{A}$ MMBD2835
	$V_{(BR)}$	75				$I_R=100\mu\text{A}$ MMBD2836
Forward voltage	$V_{F1}$		0.72	1.0	V	$I_R=10\text{mA}$
	$V_{F2}$		0.88	1.0	V	$I_R=50\text{mA}$
	$V_{F3}$		1.0	1.2	V	$I_F=100\text{mA}$
Reverse current	$I_R$			0.1	$\mu\text{A}$	$V_R=30\text{V}$ MMBD2835
	$I_R$			0.1	$\mu\text{A}$	$V_R=50\text{V}$ MMBD2836
Capacitance between terminals	$C_T$			4	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	$t_{rr}$		2.5	4	ns	$I_F=10\text{mA}, V_R=6\text{V}, t_{rr}=0.1 \cdot I_R, R_L=100\Omega$

### ORDERING INFORMATION

Type No.	Mar king	Package Code
MMBD2835	A3	SOT-23
MMBD2836	A41	SOT-23

## RATINGS AND CHARACTERISTIC CURVES

