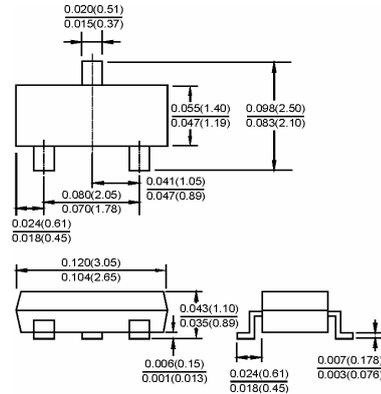

SOT-23


Dimensions in inches and (millimeters)

Features

- High speed switching: $t_{rr}=3.0\text{ns}(\text{max})$
- Low capacitance: $C_T=1.1\text{pF}(\text{typ.})$

Applications

- Small signal switching

Ordering Information

Type No.	Marking	Package Code
MMBD2837	A5	SOT-23
MMBD2838	A61	SOT-23

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits		Unit
		MMBD2837	MMBD2838	
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	150		mW
Junction temperature	T_J	125		$^\circ\text{C}$
Storage temperature	T_{STG}	-55-125		$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}		0.67	1.0	V	$I_R=10\text{mA}$
	V_{F2}		0.75	1.1	V	$I_R=50\text{mA}$
	V_{F3}		0.85	1.2	V	$I_F=100\text{mA}$
Reverse current	I_R			0.1	μA	$V_R=30\text{V}$ MMBD2837
	I_R			0.1	μA	$V_R=50\text{V}$ MMBD2838
Capacitance between terminals	C_T		1.1	4	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	t_{rr}			3	ns	$I_F=10\text{mA}, V_R=6V, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified
