

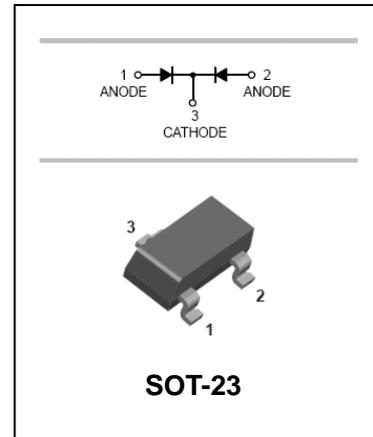


Surface mount switching diode

**MMBD2837/MMBD2838**

**FEATURES**

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



**APPLICATIONS**

- Small signal switching

**ORDERING INFORMATION**

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

**MAXIMUM RATING @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Limits		Unit
		MMBD2837	MMBD2838	
Non-Repetitive Peak reverse voltage	$V_{RM}$	75	75	V
DC Reverse Voltage	$V_R$	30	50	V
Average rectified output Current	$I_o$	150	100	mA
Power Dissipation	$P_d$	300		mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	417		°C/W
Junction and Storage temperature	$T_J, T_{STG}$	-55 to +150		°C



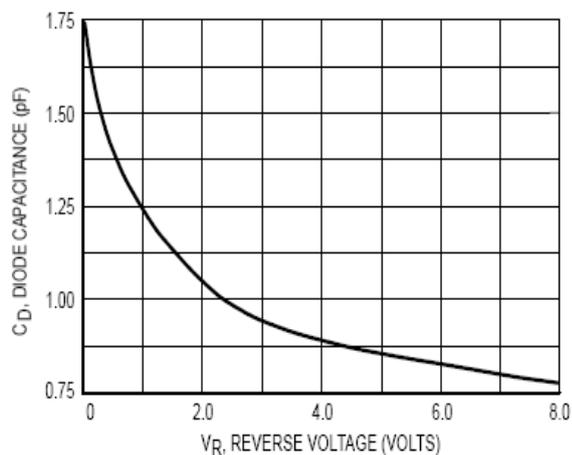
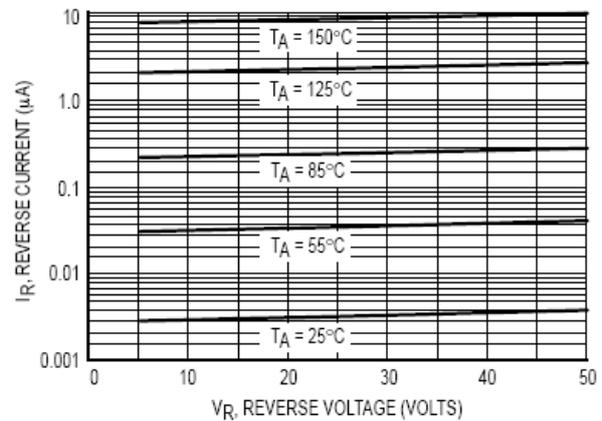
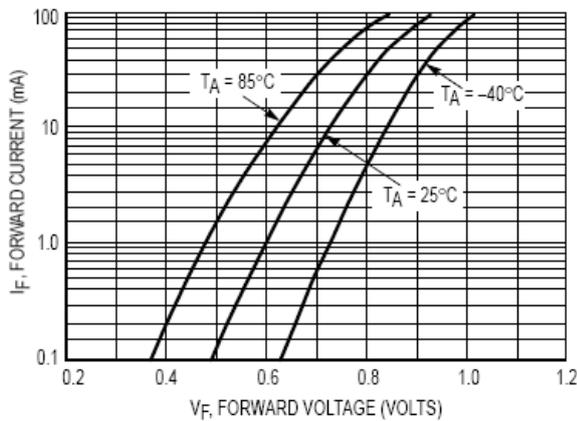
Surface mount switching diode

**MMBD2837/MMBD2838**

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	35			V	$I_{(BR)}=100\mu A$ MMBD2837
		75			V	$I_{(BR)}=100\mu A$ MMBD2838
Forward voltage	$V_{F1}$			1.0	V	$I_R=10mA$
	$V_{F2}$			1.0	V	$I_R=50mA$
	$V_{F3}$			1.2	V	$I_F=100mA$
Reverse current	$I_R$			0.1	$\mu A$	$V_R=30V$ MMBD2837
	$I_R$			0.1	$\mu A$	$V_R=50V$ MMBD2838
Capacitance between terminals	$C_T$			4	pF	$V_R=0, f=1MHz$
Reverse Recovery Time	$t_{rr}$			4	ns	$I_F=10mA, V_R=6V, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



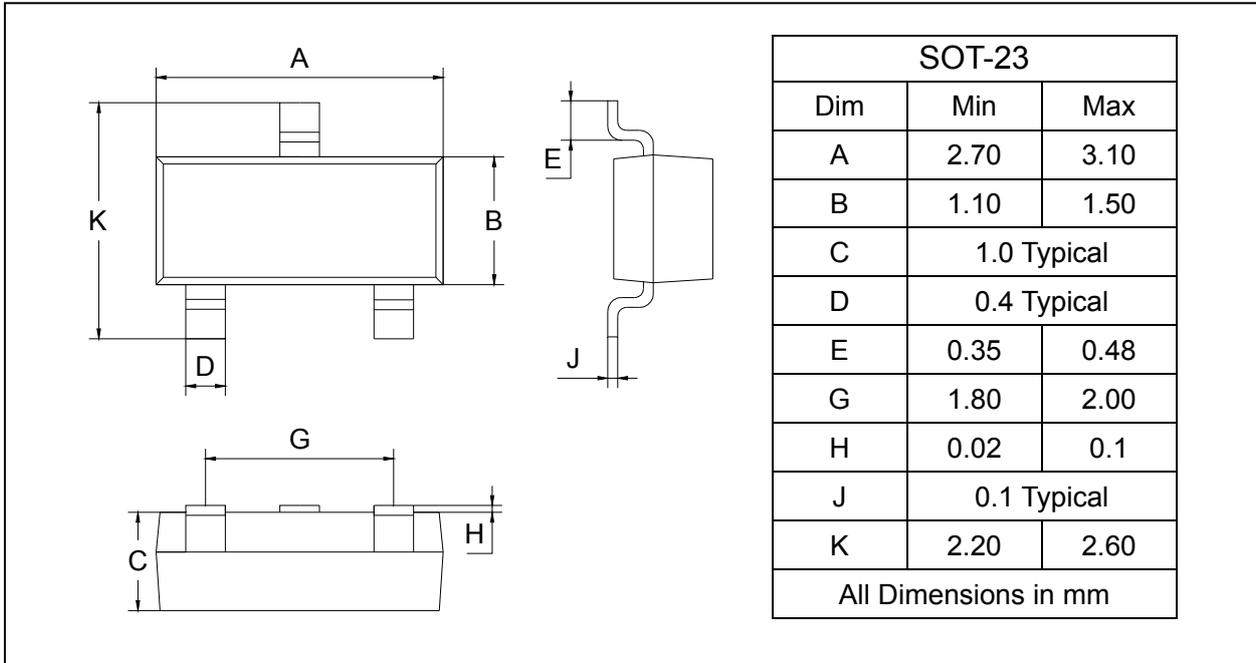
Surface mount switching diode

**MMBD2837/MMBD2838**

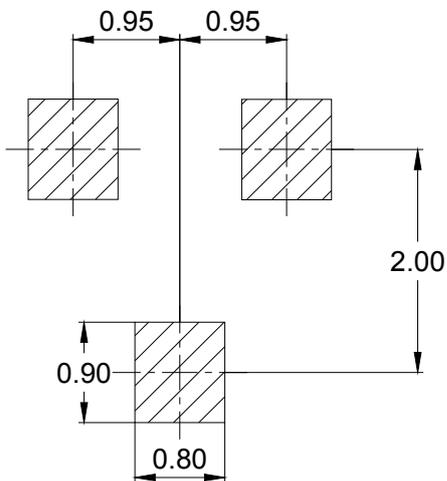
**PACKAGE OUTLINE**

Plastic surface mounted package

SOT-23



**SOLDERING FOOTPRINT**



Unit : mm

**PACKAGE INFORMATION**

Device	Package	Shipping
MMBD2837/MMBD2838	SOT-23	3000/Tape&Reel