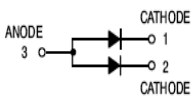
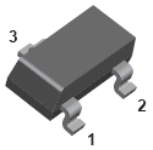
Surface mount switching diode **MMBD2837/MMBD2838**

FEATURES

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

Lead-free





SOT-23

APPLICATIONS

- Small signal switching

ORDERING INFORMATION

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

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

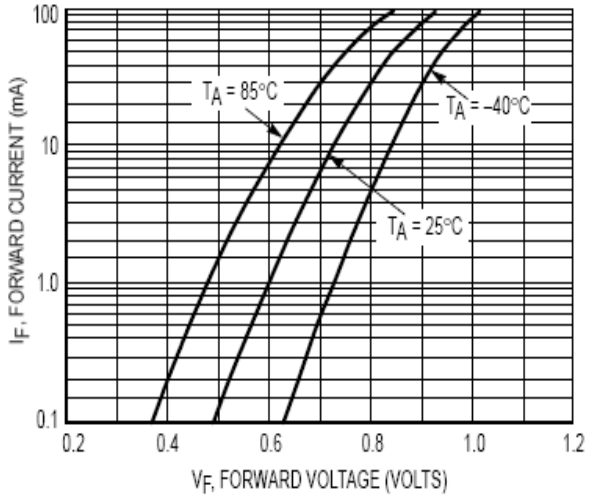
Parameter	**Symbol**	**Limits**		**Unit**
		MMBD2837	MMBD2838	
Non-Repetitive Peak reverse voltage	V_{RM}	35	75	V
DC Reverse Voltage	V_R	30	50	V
Average rectified output Current	I_o	100		mA
Power Dissipation	P_d	150		mW
Junction temperature	T_J	125		℃
Storage temperature	T_{STG}	-55-125		℃

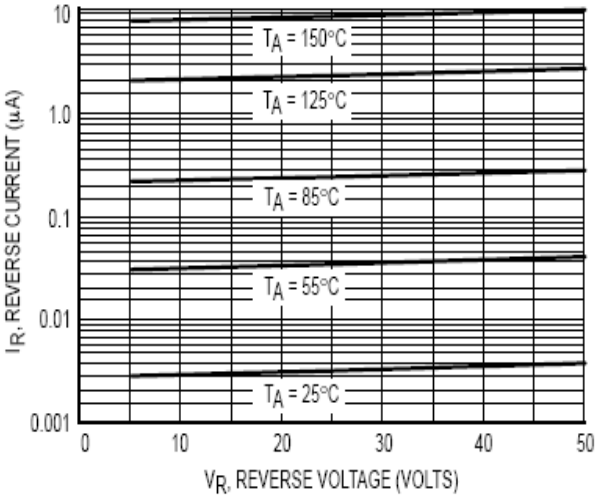
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

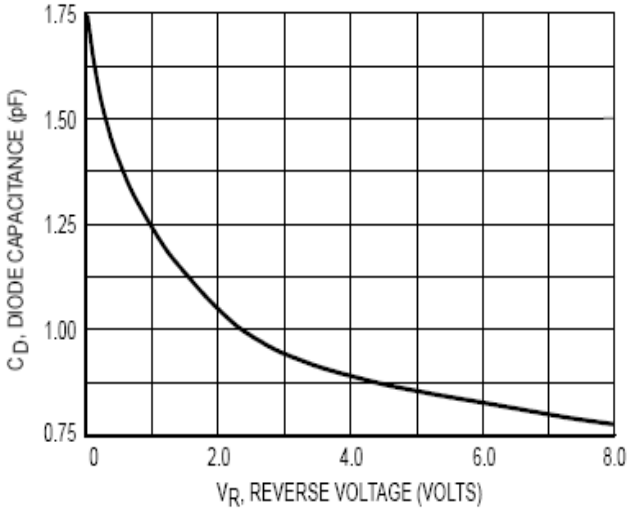
Parameter	**Symbol**	**Min.**	**Typ.**	**Max.**	**Unit**	**Conditions**
Forward voltage	V_{F1}		0.67	1.0	V	I_R=10mA
	V_{F2}		0.75	1.1	V	I_R=50mA
	V_{F3}		0.85	1.2	V	I_F=100mA
Reverse current	I_R			0.1	μA	V_R=30V MMBD2837
	I_R			0.1	μA	V_R=50V MMBD2838
Capacitance between terminals	C_T		1.1	4	pF	V_R=0,f=1MHz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

Surface mount switching diode **MMBD2837/MMBD2838**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified



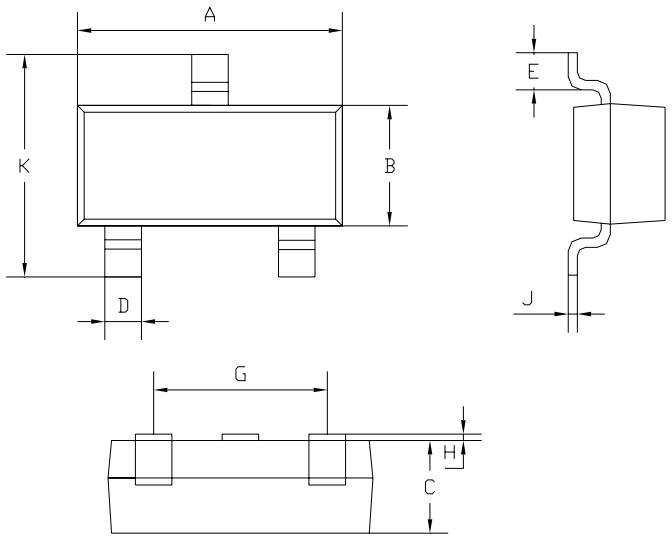




Surface mount switching diode **MMBD2837/MMBD2838**

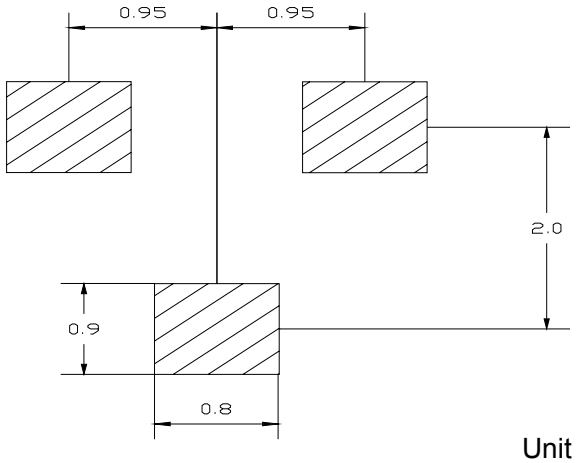
PACKAGE OUTLINE

Plastic surface mounted package SOT-23



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1.0Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1Typical	
K	2.35	2.45
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

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