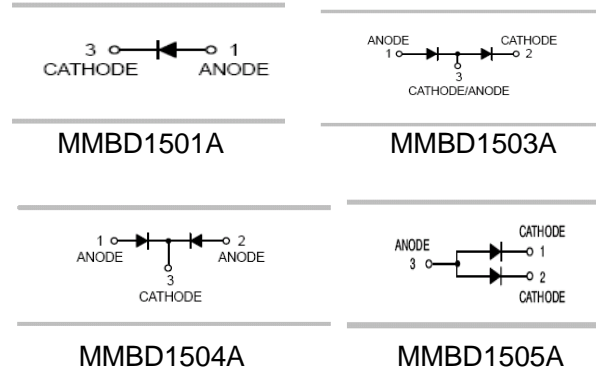




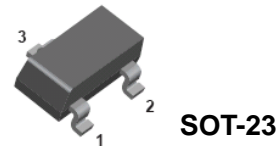
## FEATURES

- Two element incorporated into one package.  
(Emitter-coupled transistors)
- Reduction of the mounting area and assembly cost by one half.



## APPLICATIONS

- For general application.



## ORDERING INFORMATION

Type No.	Marking	Package Code
MMBD1501A	A11	SOT-23
MMBD1503A	A13	SOT-23
MMBD1504A	A14	SOT-23
MMBD1505A	A15	SOT-23

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

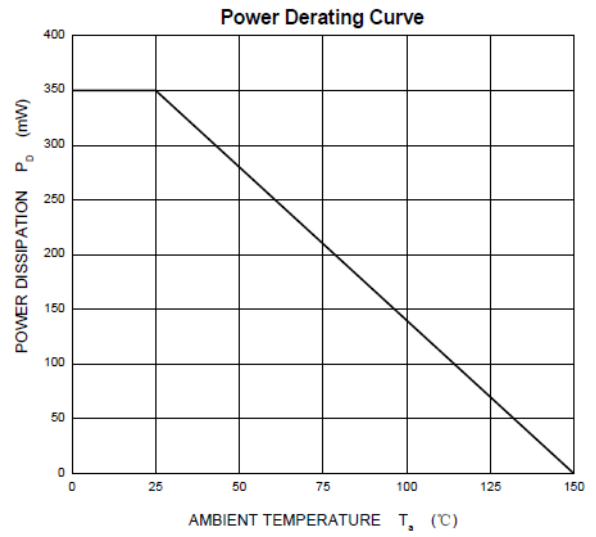
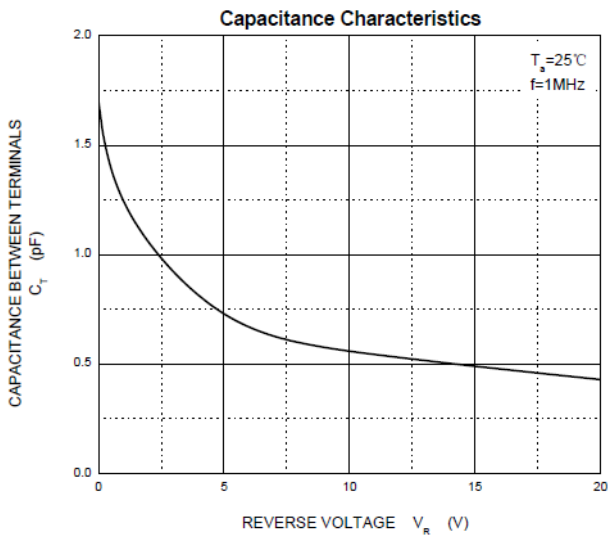
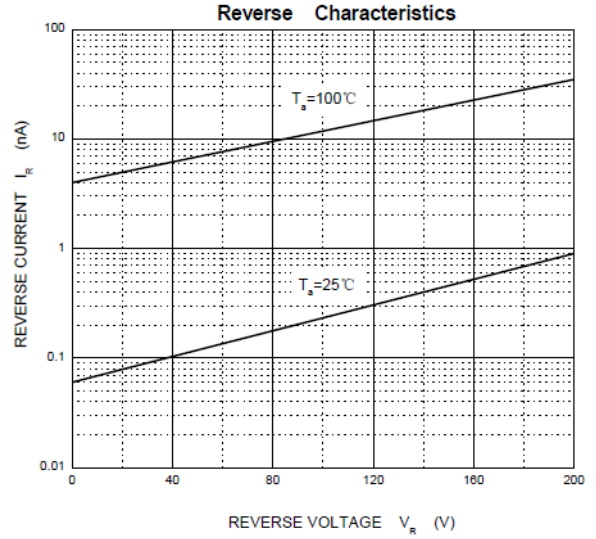
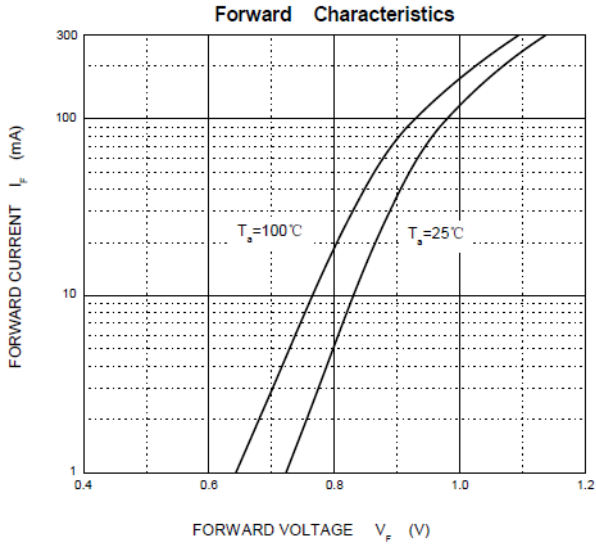
Parameter	Symbol	Limits	Unit
Reverse Voltage	$V_R$	200	V
Average rectified current	$V_{F(AV)}$	200	mA
Forward Continuous Current	$I_{FM}$	200	mA
Recurrent Peak Forward Current	$I_{FRM}$	700	mA
Peak forward current (1.0s)	$I_{FSM}$	1.0	A
(1.0m)		2.0	
Power Dissipation	$P_d$	350	mW
Thermal resistance, Junction to ambient	$R_{\theta JA}$	357	°C/W
Storage temperature	$T_{STG}$	-55 to +150	°C


**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R1}$	200			V	$I_R=5\mu A$
Forward voltage	$V_F$			0.72 0.83 0.95 1.1 1.3 1.5	V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=100mA$ $I_F=200mA$ $I_F=300mA$
Reverse current	$I_R$			10	nA	$V_R=180V$
Diode Capacitance	$C_D$			4	pF	$V_R=0V, f=1MHz$



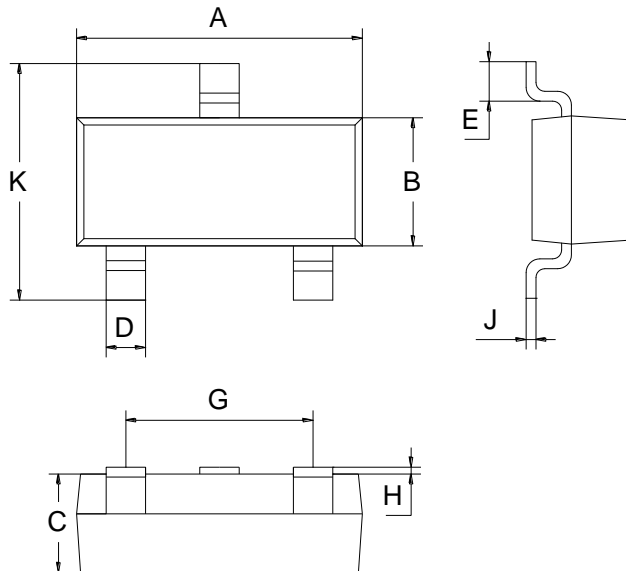
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





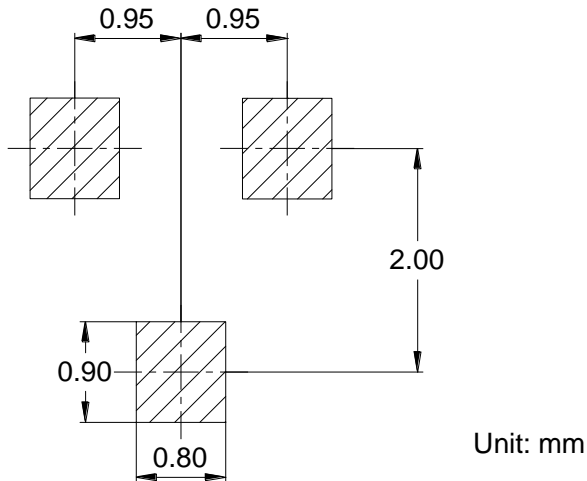
## PACKAGE OUTLINE

Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

Device	Package	Shipping
MMBD1501A/1503A/1504A/1505A	SOT-23	3000 pcs / Tape & Reel