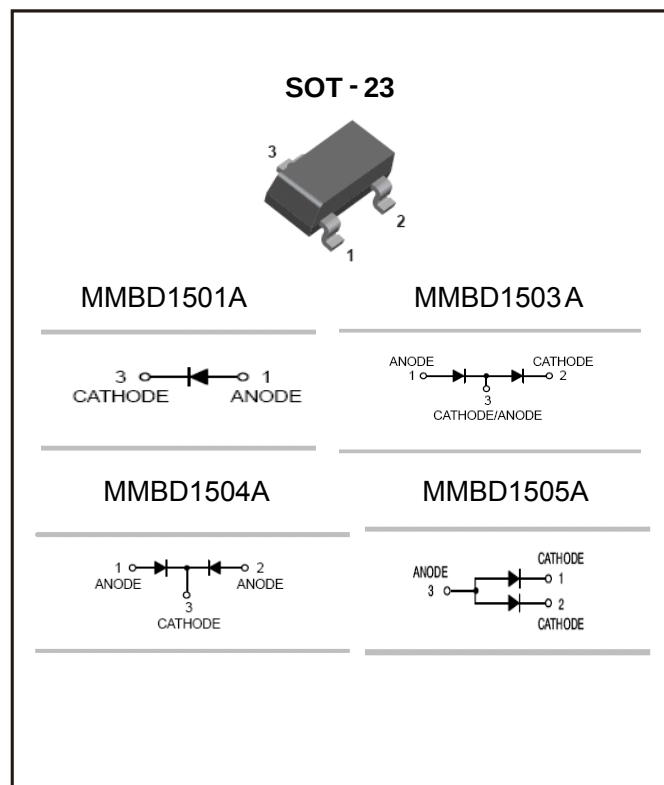


FEATURES

- Two element incorporated into one package.
(Emitter-coupled transistors)
- Reduction of the mounting area and assembly cost by one half.
- Moisture Sensitivity Level 1

APPLICATIONS

- For general application.



Marking Code : MMBD1501A : A11

MMBD1503A : A13

MMBD1504A : A14

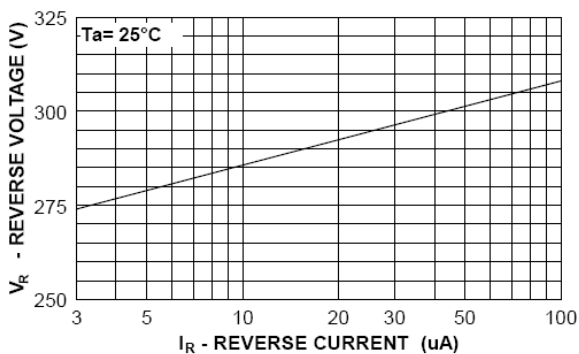
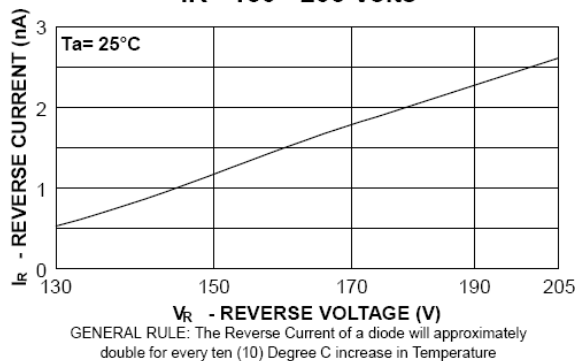
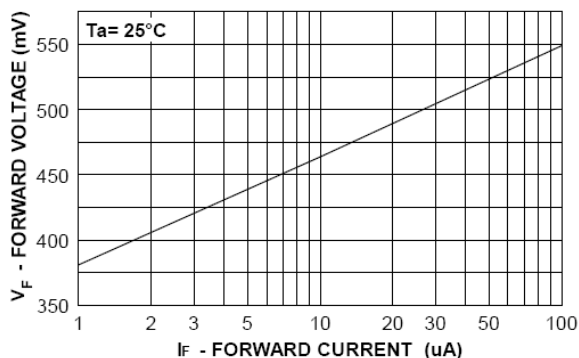
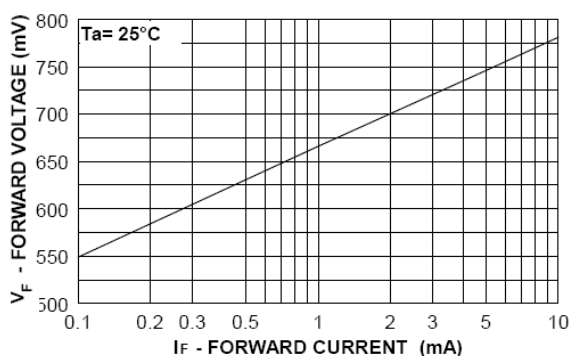
MMBD1505A : A15

MAXIMUM RATING @ Ta=25℃ 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}	700	mA
Peak forward current (1.0s) (1.0m)	I_{FSM}	1.0 2.0	A
Power Dissipation	P_d	350	mW
Thermal resistance, Junction to ambient	$R_{\theta JA}$	357	℃/W
Storage temperature	T_{STG}	-55-150	℃

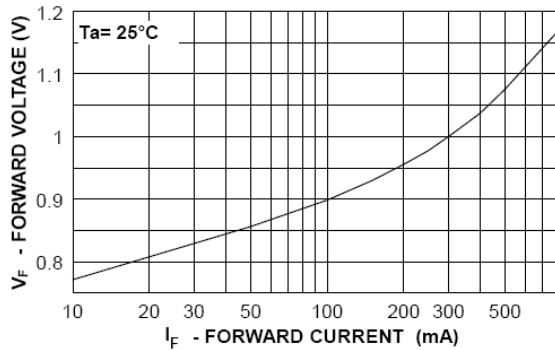
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	$V_{(BR)R1}$	200		V	$I_R=5\mu A$
Forward voltage	V_F		0.75 0.85 0.95 1.1 1.3 1.50	V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=100mA$ $I_F=200mA$ $I_F=300mA$
Reverse current	I_R		1.0 10	nA	$V_R=125V$ $V_R=180V$
Diode Capacitance	C_D		4	pF	$V_R=0V, f=1MHz$

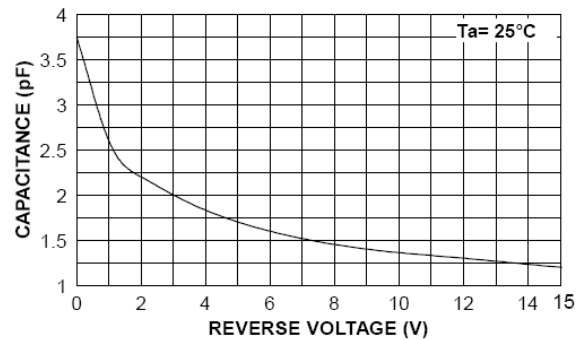
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified
REVERSE VOLTAGE vs REVERSE CURRENT
BV - 3.0 to 100 uA

REVERSE CURRENT vs REVERSE VOLTAGE
IR - 130 - 205 Volts

FORWARD VOLTAGE vs FORWARD CURRENT
VF - 1 to 100 uA

FORWARD VOLTAGE vs FORWARD CURRENT
VF - 0.1 to 10 mA




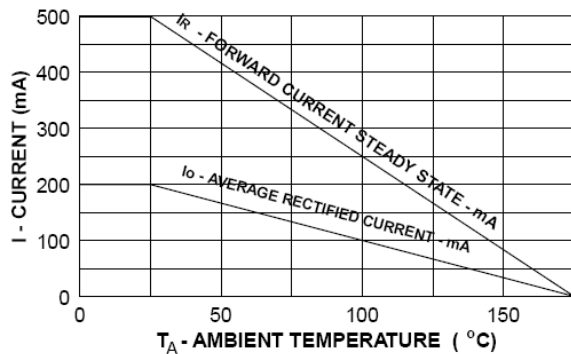
FORWARD VOLTAGE vs FORWARD CURRENT
VF - 10 to 800 mA



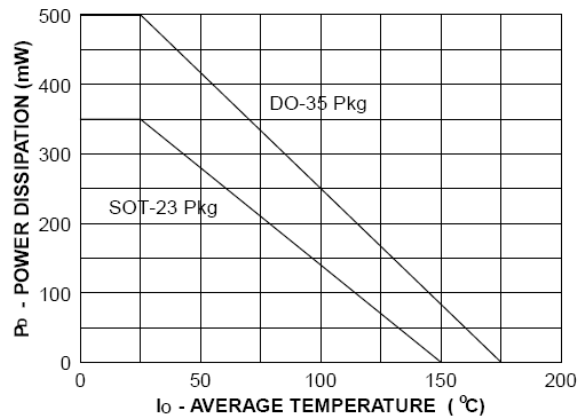
CAPACITANCE vs REVERSE VOLTAGE
VR - 0 to 15 V



Average Rectified Current (I_o) & Forward Current (I_F) versus Ambient Temperature (T_A)



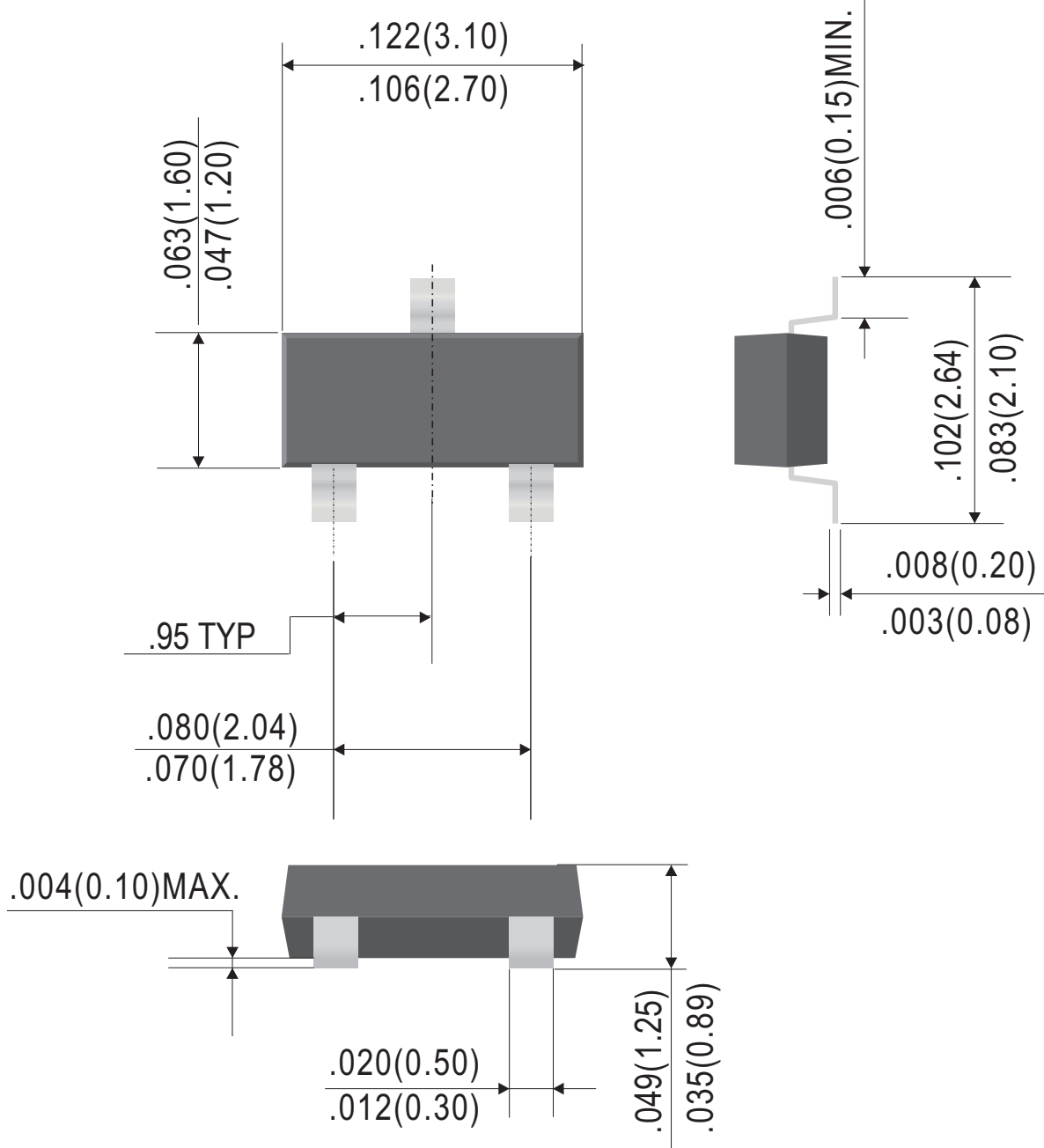
POWER DERATING CURVE





Outline Drawing

SOT-23



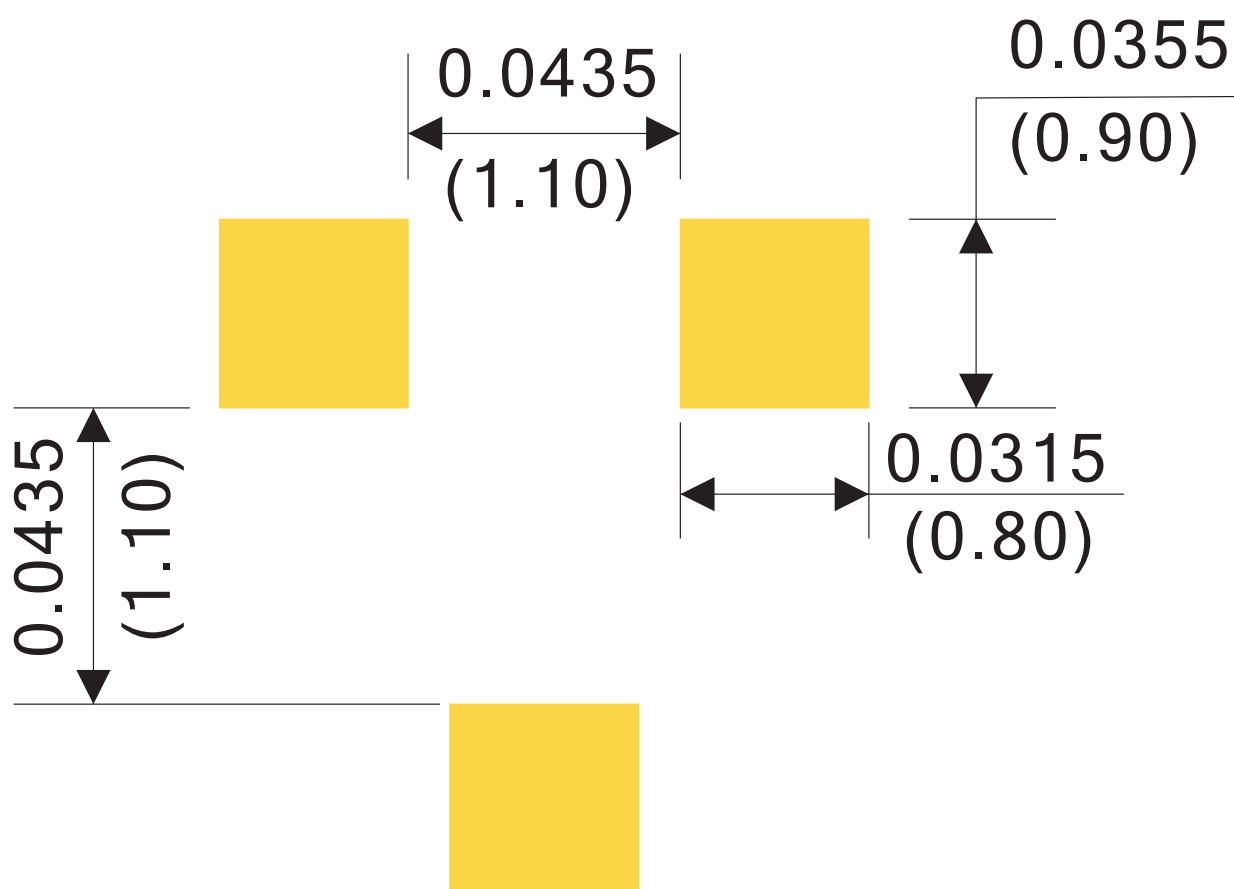
Dimensions in inches and (millimeters)

Rev.E



Suggested Soldering Pad Layout

SOT-23



Dimensions in inches and (millimeters)

RevA

Ordering Information:

Device PN	Packing
Part Number-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

*****Disclaimer*****

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