

MMBD1203

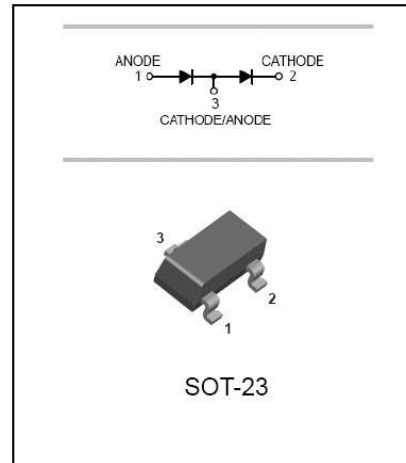
Dual series switching diode

FEATURES

- Fast switching speed Max:6ns
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion

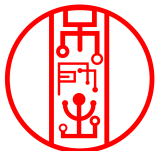
APPLICATIONS

- Small signal switching



MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Non repetitive peak reverse voltage	V_{RM}	80	V
Repetitive peak reverse voltage Working peak reverse voltage DC Reverse voltage	V_{RRM} V_{RWM} V_R	70	V
Peak forward surge current @t=1.0s @t=1.0μs	I_{FSM}	1 4.5	mA
Forward current	I_F	250	mA
Power dissipation	P_d	300	mW



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

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	70		V
Reverse voltage leakage current	I_R	$V_R=70\text{V}$		2.5	μA
Forward voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$		715 855 1000 1250	mV
Diode capacitance	C_D	$V_R=0\text{V}$ $f=1\text{MHz}$		1.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}$ $V_R=5\text{V}$ $R_C=100\Omega$		6	nS

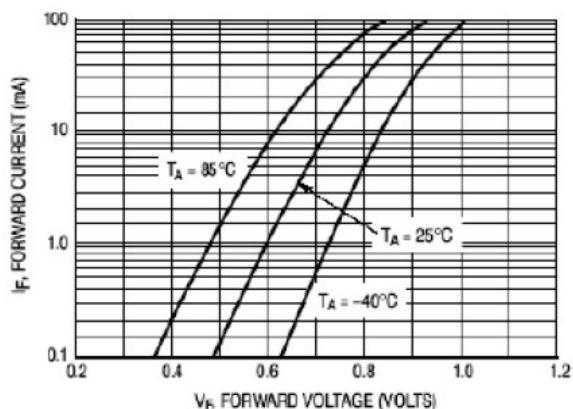


Figure 1. Forward Voltage

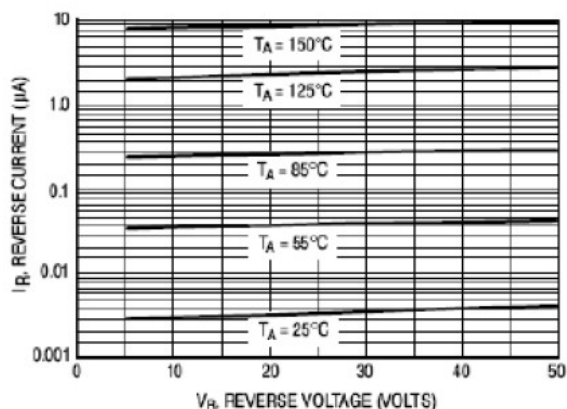


Figure 2. Leakage Current

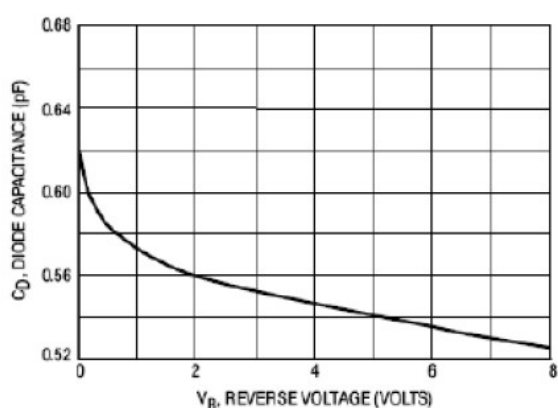


Figure 3. Capacitance

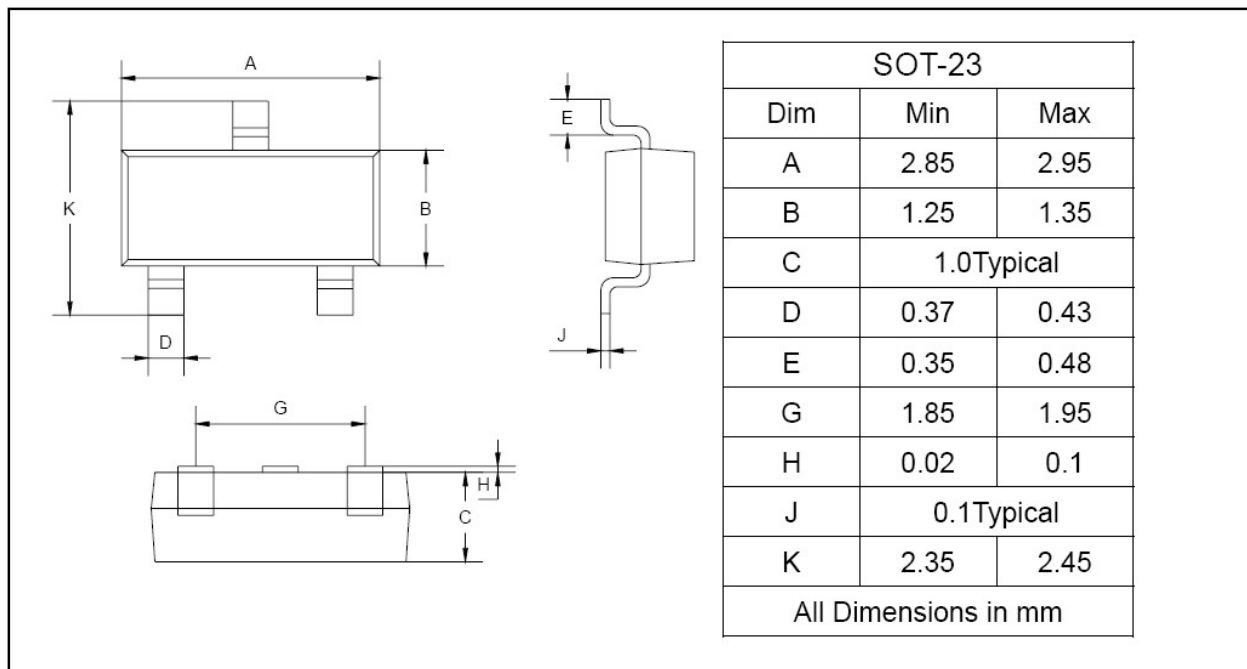


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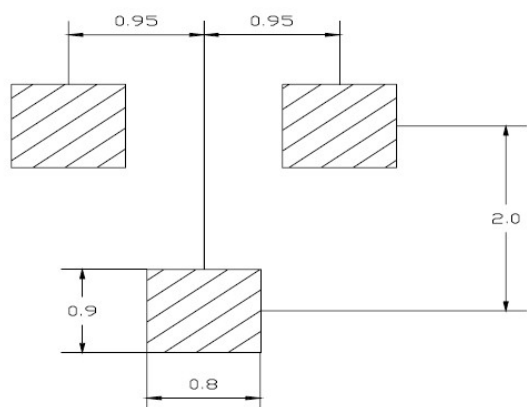
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm