

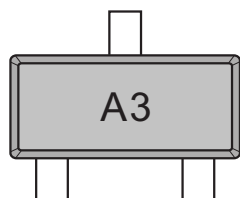


Switching Diodes

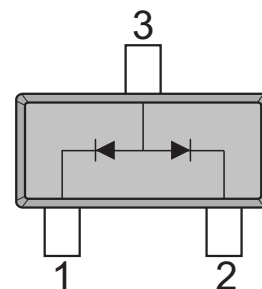
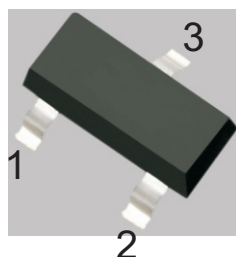
FEATURES

- Low forward voltage
- Fast reverse recovery time

MARKING: A3



SOT-23



Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_o	100	mA
Non-Repetitive Peak Forward Surge Current @t=1ms	I_{FSM}	1.0	A
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction to Ambient	R_{thJA}	833	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

Electrical Characteristics@Ta=25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	80			V
Forward voltage	V_{F1}	$I_F=1\text{ mA}$		0.61		V
	V_{F2}	$I_F=10\text{ mA}$		0.74		V
	V_{F3}	$I_F=100\text{ mA}$		0.92	1.2	V
Reverse current	I_{R1}	$V_R=30\text{ V}$			0.1	μA
	I_{R2}	$V_R=80\text{ V}$			0.5	μA
Capacitance between terminals	C_T	$V_R=0, f=1\text{ MHz}$		2.2	4.0	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{ mA}, I_{rr}=0.1 \times I_R$		1.6	4.0	ns



Fig.1 Power Derating Curve

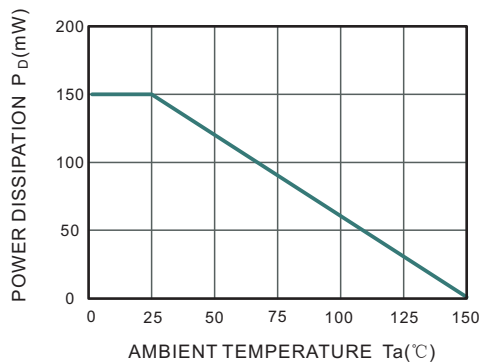


Fig.2 Reverse Characteristics

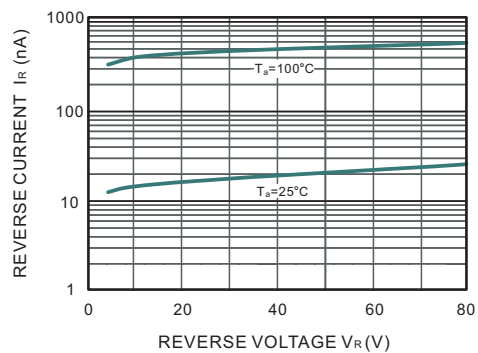


Fig.3 Forward Characteristics

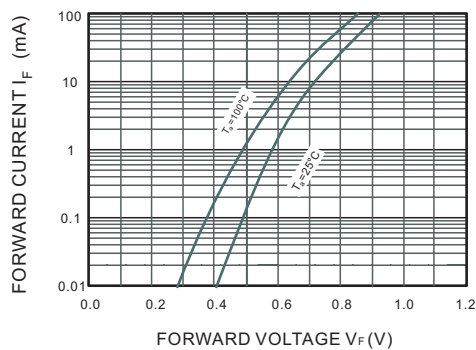
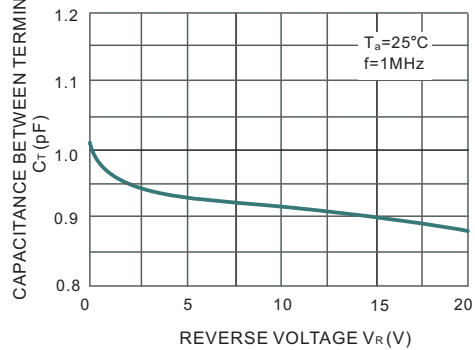
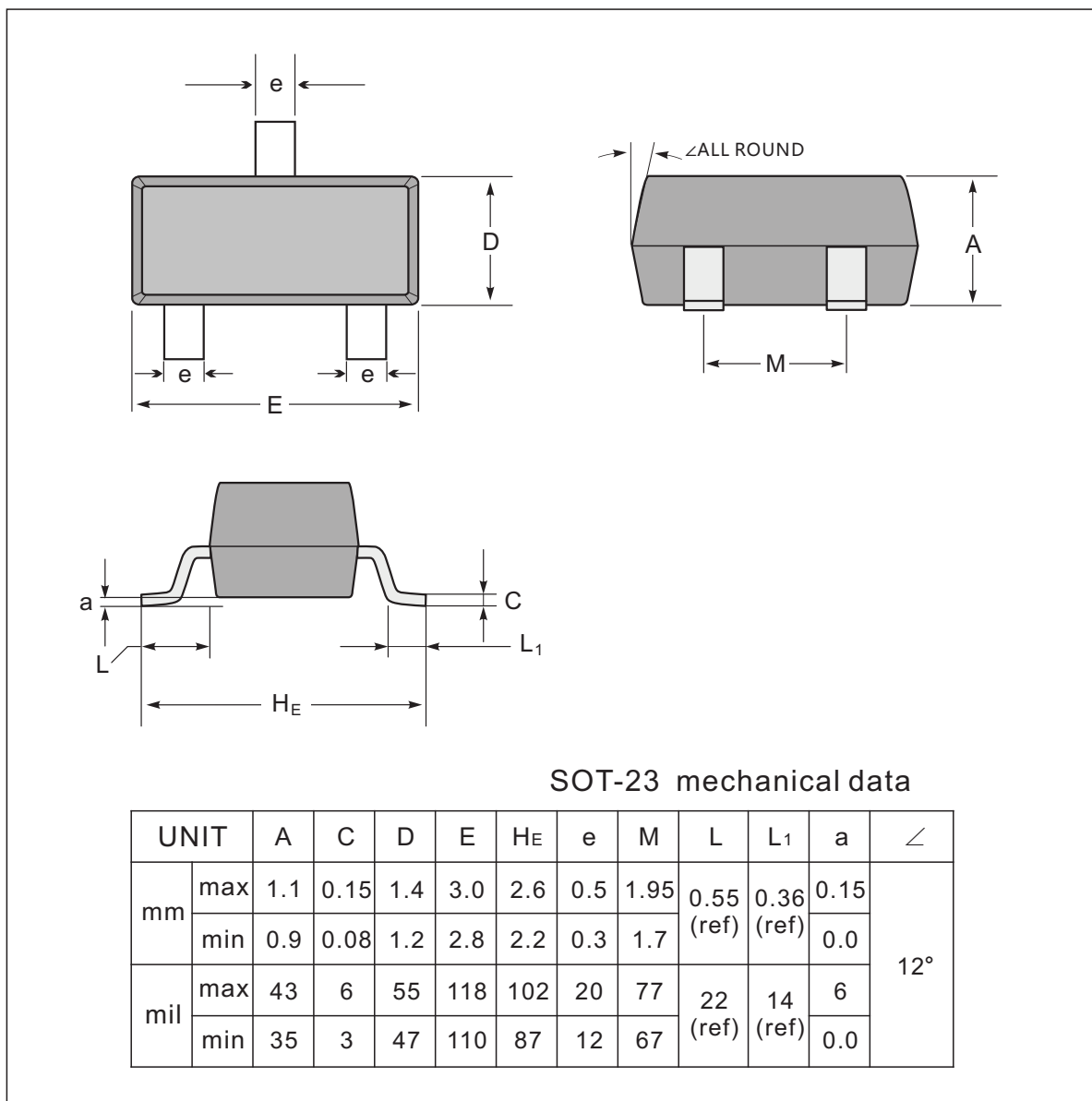


Fig.4 Capacitance Characteristics

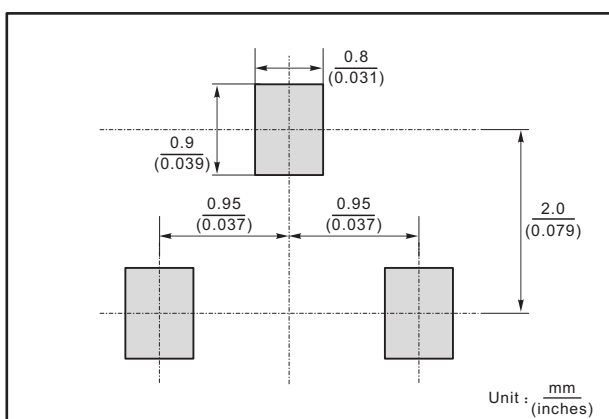




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
1SS181	A3

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