

Switching Diode

■ Features

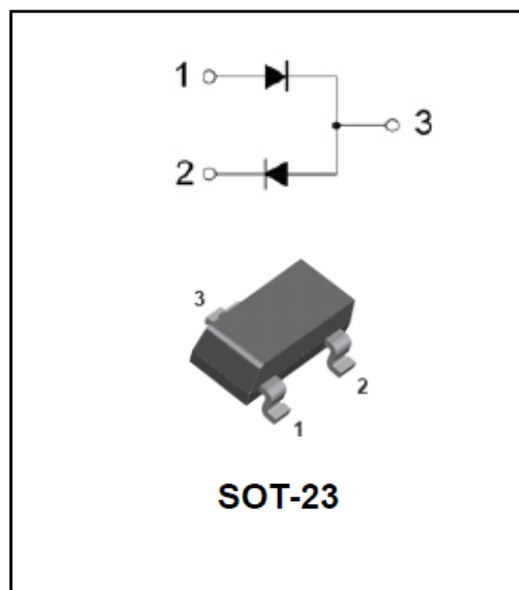
- V_R 70V
- I_F 200mA

■ Applications

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

■ Marking A7

■ External and internal structure



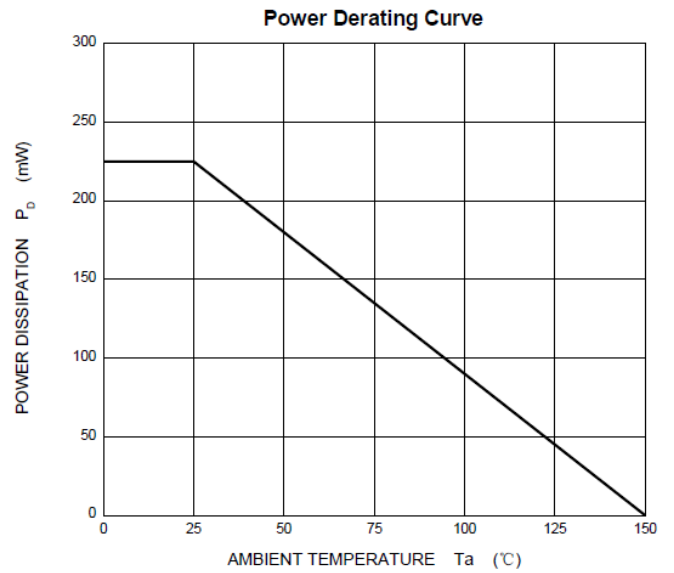
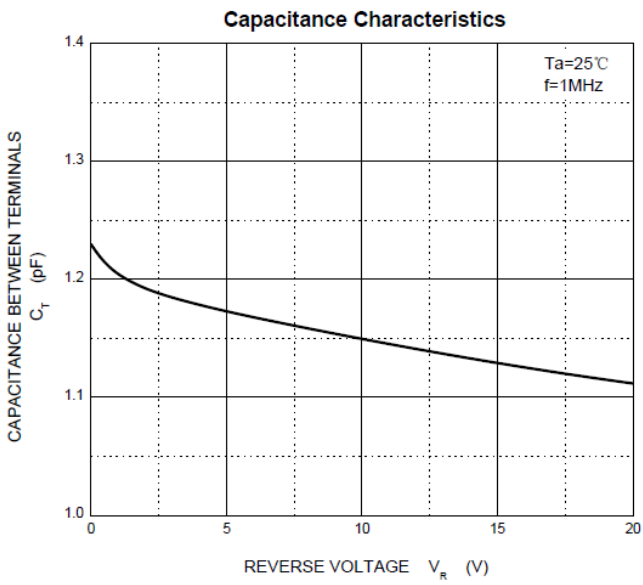
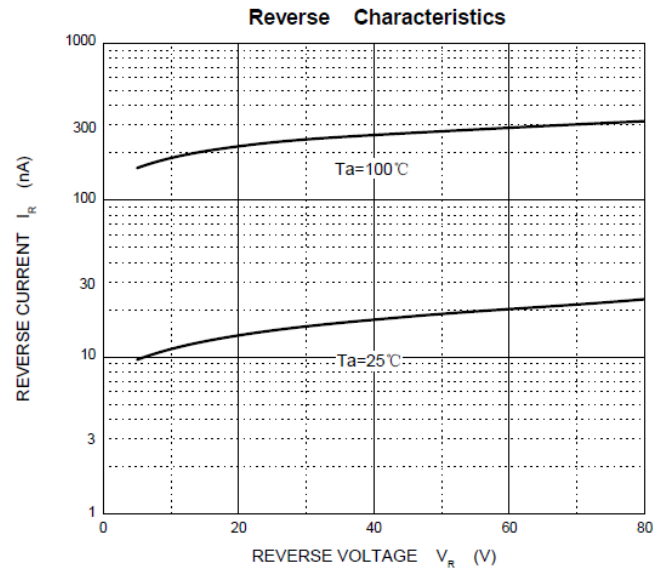
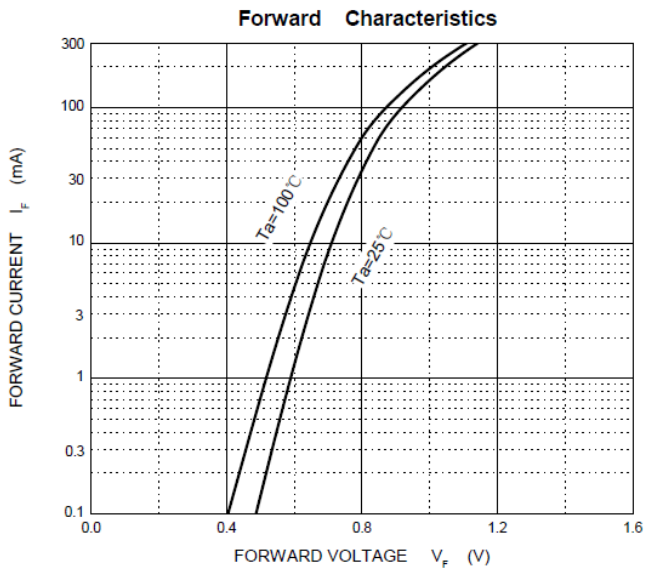
■ Limiting Values (Absolute Maximum Rating)

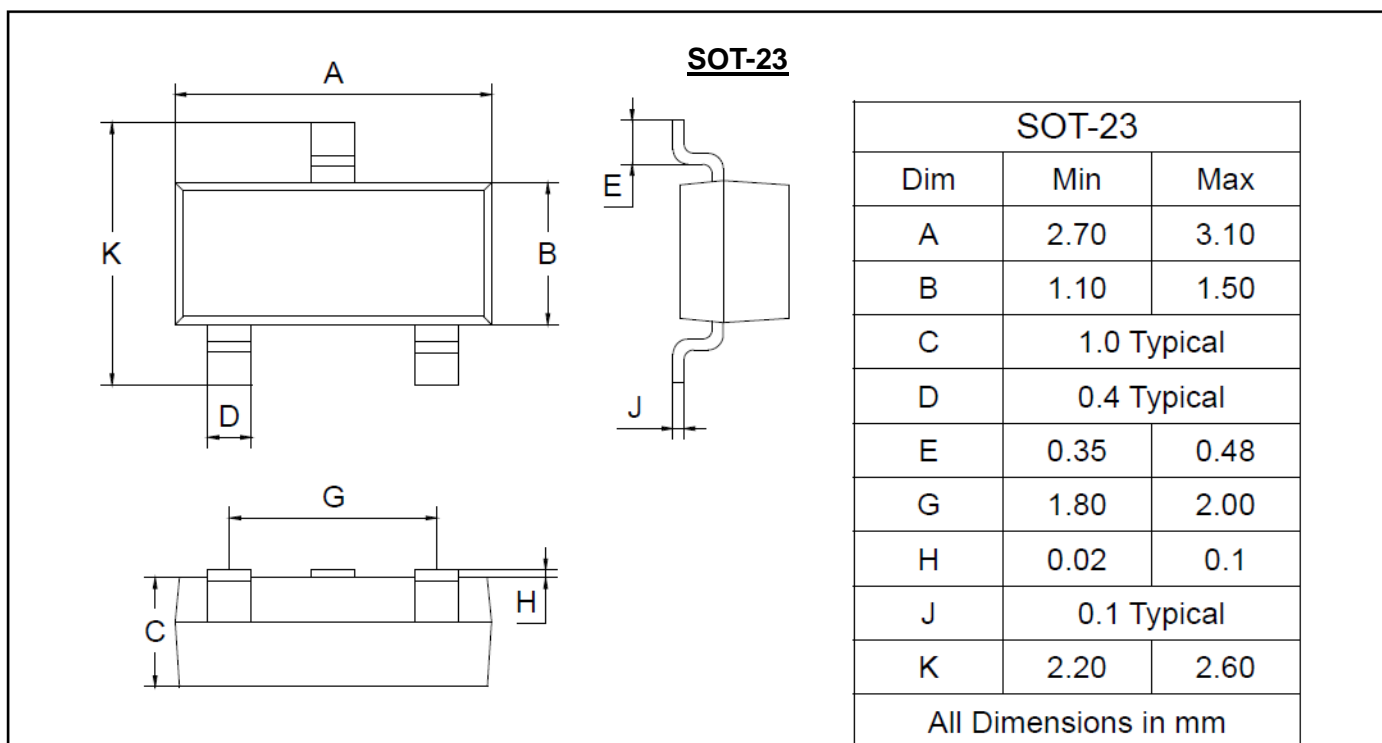
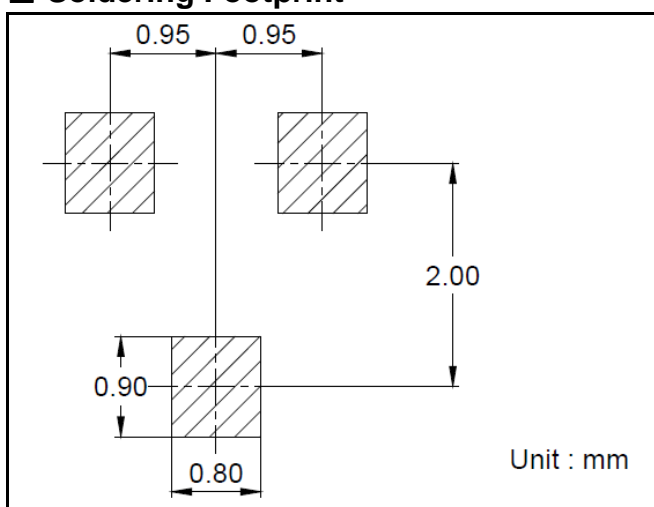
Item	Symbol	Unit	Conditions	Limit
Reverse Voltage	V_R	V		70
Forward Current	I_F	mA		200
Peak Forward Surge current	I_{FSM}	mA		500
Power Dissipation	P_d	mW		225
Thermal Resistance Junction to Ambient	R_{THJA}	$^{\circ}C/W$		556
Operating Junction Temperature Range	T_j	$^{\circ}C$		150
Storage Temperature Range	T_{STG}	$^{\circ}C$		-55 to +125

■ Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Typ	Max
Reverse Breakdown Voltage	V_R	V	$I_R=100\mu A$	70		
Forward Voltage	V_{F1}	V	$I_F=1mA$			0.715
	V_{F2}		$I_F=10mA$			0.855
	V_{F3}		$I_F=50mA$			1.0
	V_{F4}		$I_F=150mA$			1.25
Reverse Current	I_R	μA	$V_R=70V$			2.5
Capacitance Between Terminals	C_T	pF	$V_R=0V, f=1.0MHz$			1.5
Reverse Recovery Time	t_{rr}	ns	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=10\Omega$			6.0

■ Characteristics(Typical)



**■ Plastic surface mounted package****■ Soldering Footprint****■ Packing Information**

Device	Package	Shipping
BAV99	SOT-23	3000/Tape&Reel