

DATA SHEET

BAV23/A/C/S

SURFACE MOUNT SWITCHING DIODE

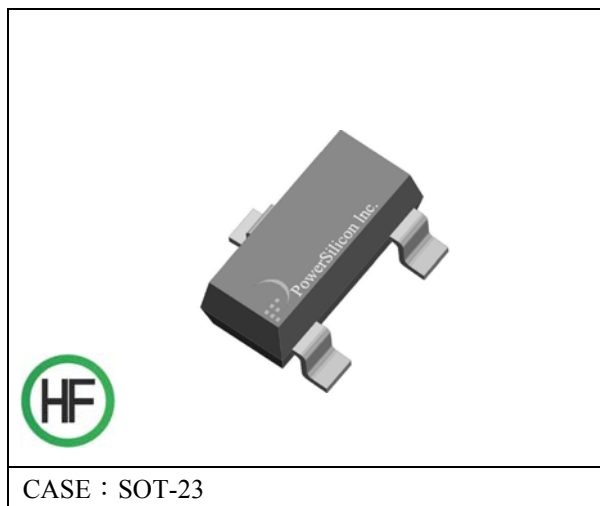
VOLTAGE 250 Volts **CURRENT** 400 mA

FEATURES

- HIGH CONDUCTANCE
- FOR GENERAL PURPOSE SWITCHING APPLICATIONS
- FAST SWITCHING SPEED
- LEAD FREE AND HALOGEN-FREE

MECHANICAL DATA

- CASE : SOT-23, PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD 208
- APPROX. WEIGHT: 0.008 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

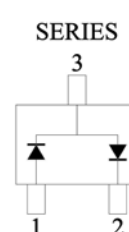
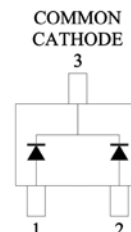
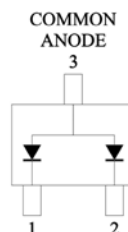
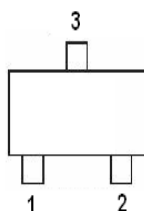
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

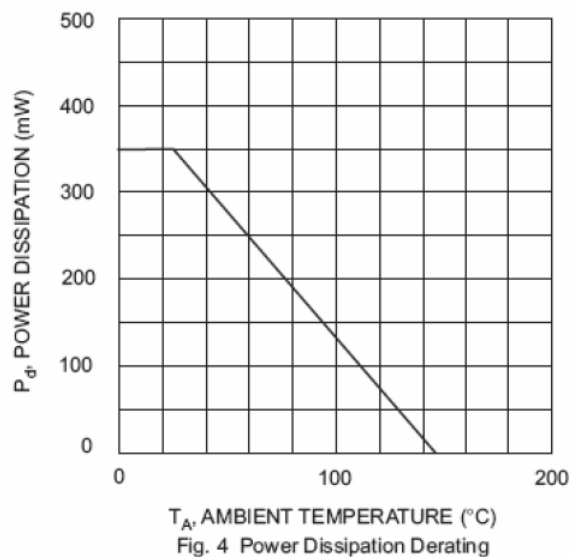
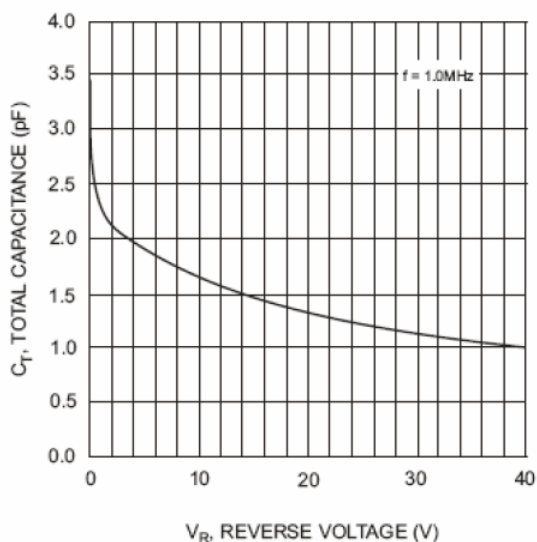
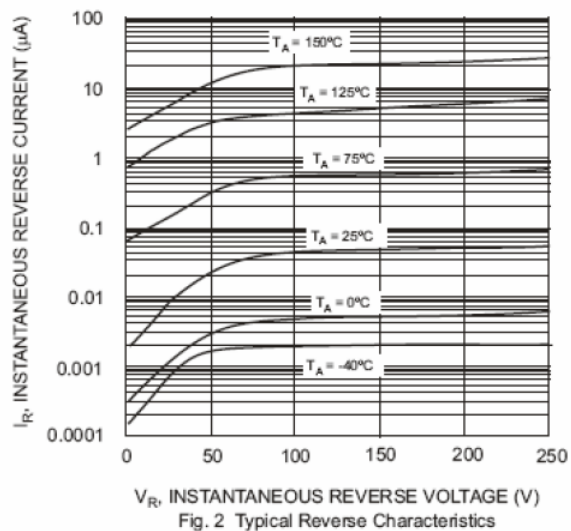
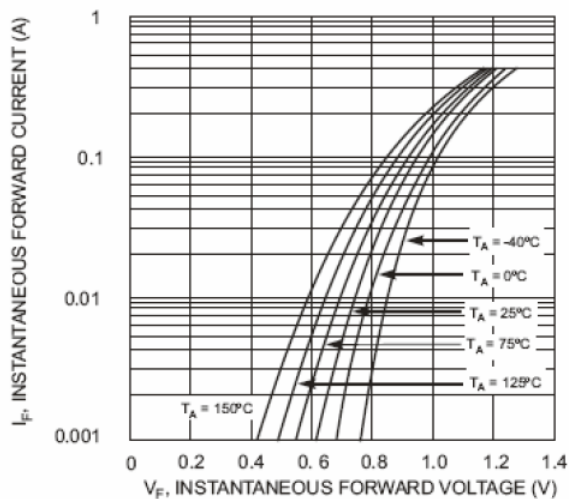
PARAMETER	SYMBOL	VALUE	UNITS
PEAK REPETITIVE REVERSE VOLTAGE ($I_F=100\text{ }\mu\text{A}$)	V_{RRM}	250	V
WORKING PEAK REVERSE VOLTAGE	V_{RWM}	200	V
FORWARD CONTINUOUS CURRENT	I_F	0.4	A
NON-REPETITIVE PEAK FORWARD SURGE CURRENT	I_{FSM}	$t=1.0\mu\text{s}$	9
		$t=100\mu\text{s}$	3
		$t=10\text{ms}$	1.7
POWER DISSIPATION	P_D	350	mW
THERMAL RESISTANCE JUNCTION TO AMBIENT	$R_{\theta JA}$	357	°C/W
JUNCTION TEMPERATURE	T_J	150	°C
STORAGE TEMPERATURE	T_{STG}	-65 TO +150	°C

ELECTRICAL CHARACTERISTICS ($A_T T_A=25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

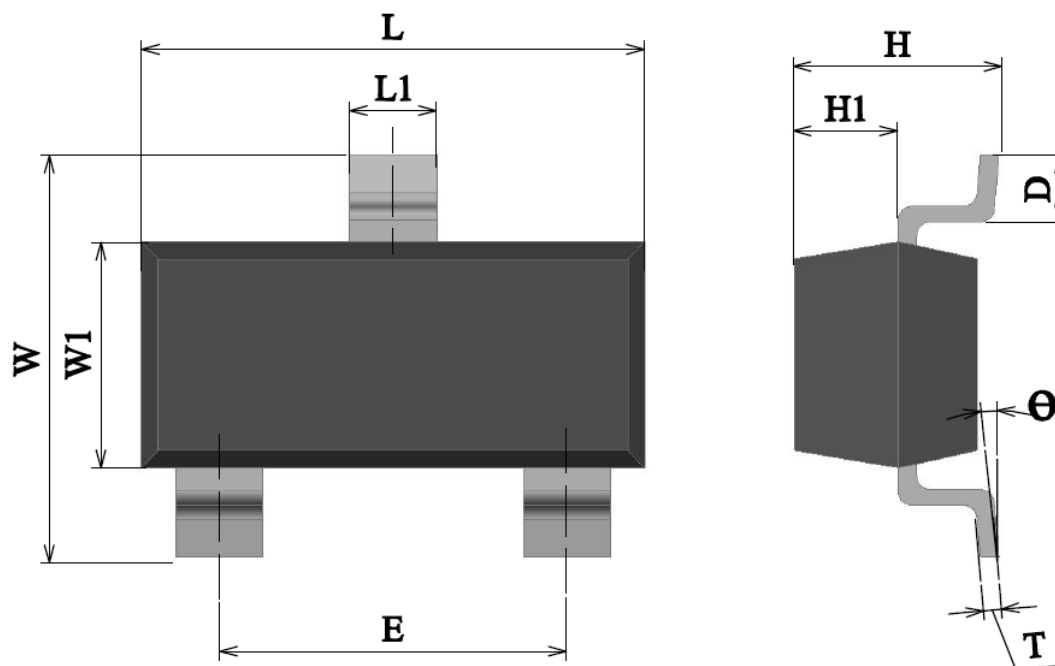
PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE	V_F	$I_F=100\text{mA}$	1
		$I_F=200\text{mA}$	1.25
MAXIMUM DC REVERSE CURRENT AT 250V	I_R	0.1	μA
DIODE CAPACITANCE AT $V_R=0\text{V}, f=1\text{MHz}$	C_D	5	pF
REVERSE RECOVERY TIME ($I_F=I_R=30\text{mA}, I_{TR}=0.1 \times I_R, R_L=100\Omega$)	t_{TR}	50	nS
CIRCUIT FIGURE		BAV23A	BAV23C
			BAV23S

PIN CONFIGURATION





SOT-23 DIMENSION



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
L	2.80	3.10	0.110	0.122
L1	0.30	0.50	0.012	0.020
W	2.25	2.54	0.089	0.100
W1	1.20	1.40	0.047	0.055
E	1.80	2.00	0.071	0.079
H	0.90	1.15	0.035	0.045
H1	0.40	0.80	0.016	0.031
D	0.30	0.50	0.012	0.020
T	0.08	0.15	0.003	0.006
θ	0°	8°	0°	8°