

SURFACE MOUNT FAST SWITCHING DIODE

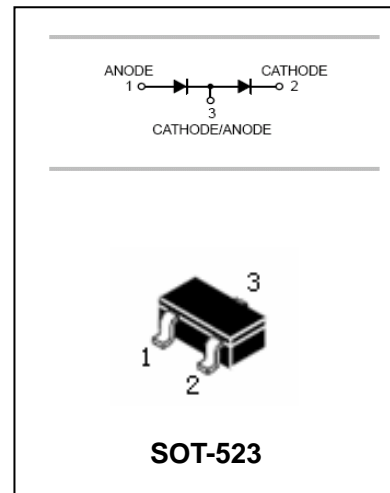
BAV99T

FEATURES

- Ultra-Small Surface Mount Package.
- Fast switching speed
- For General Purpose Switching Applications
- High Conductance
- Also Available in Lead Free Version



Lead-free



ORDERING INFORMATION

Type No.	Marking	Package Code
BAV99T	JE	SOT-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units	
V _{RRM}	Peak Repetitive Reverse Voltage	85	V	
V _{RWM}	Working Peak Reverse Voltage	85	V	
V _R	DC Blocking Voltage	85	V	
V _{R(RMS)}	RMS Reverse Voltage	60	V	
I _{FM}	Forward Continuous Current	single diode Both diodes	155 75	mA
I _{FRM}	Repetitive Peak Forward Current	500	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current	@t=1.0μs @t=1.0ms @t=1.0s	4 1 0.5	A
P _d	Power Dissipation	150	mW	
R _{θJA}	Thermal Resistance Junction to Ambient	833	°C/W	
T _j , T _{stg}	Junction and Storage Temperature	-65~150	°C	

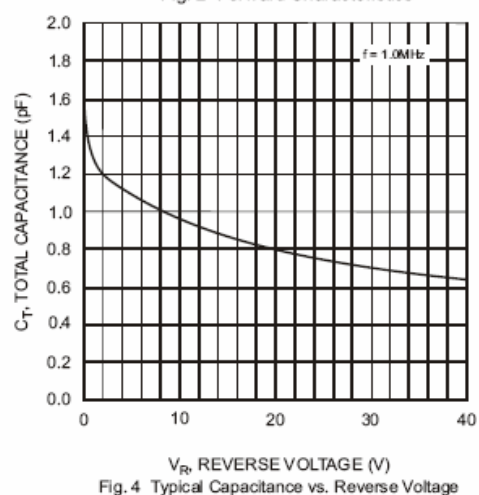
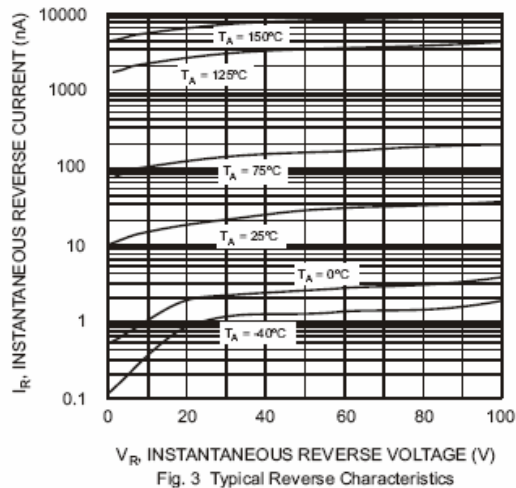
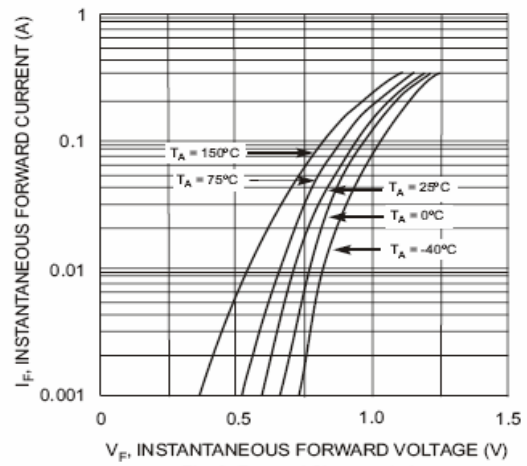
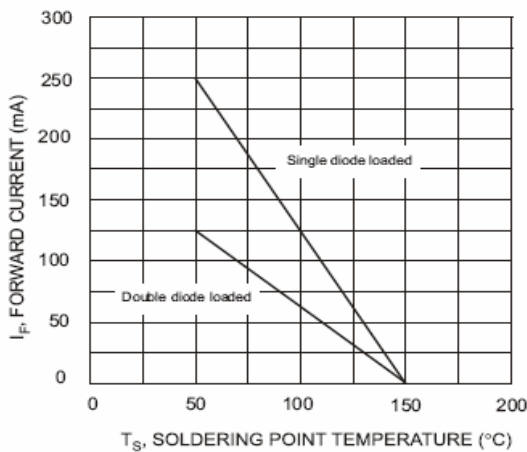
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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu A$	85		V
Leakage current	I_R	$V_R=25V$		30	nA
		$V_R=75V$		2	μA
		$V_R=25V, T_j=150^\circ C$		60	μA
		$V_R=75V, T_j=150^\circ C$		100	μA
Forward voltage	V_F	$I_F=1mA$		0.715	V
		$I_F=10mA$		0.855	
		$I_F=50mA$		1	
		$I_F=150mA$		1.25	
Typical Total Capacitance	C_T	$V_R=0V, f=1MHz$		1.5	pF
Reverse recovery Time	t_{rr}	$I_F=I_R=10mA, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		4	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



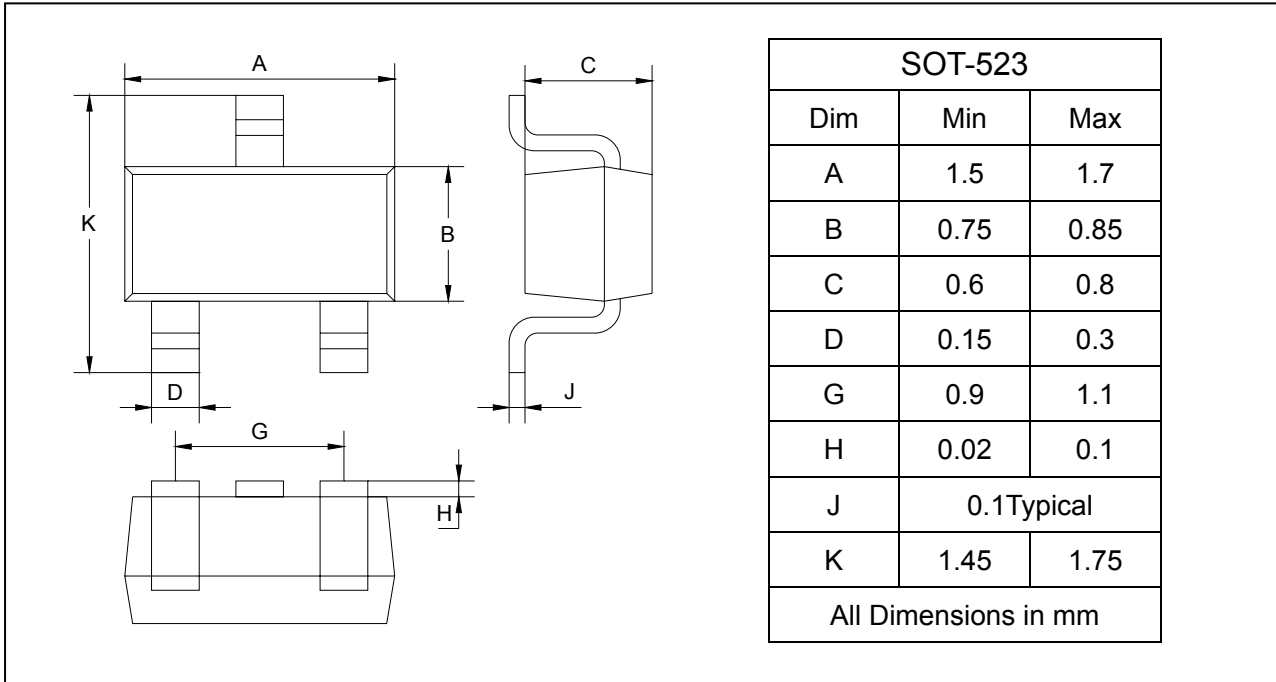
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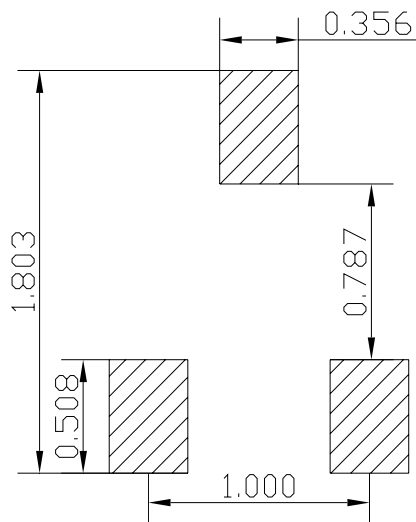
PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAV99T	SOT-523	3000/Tape&Reel

www.s-manuals.com