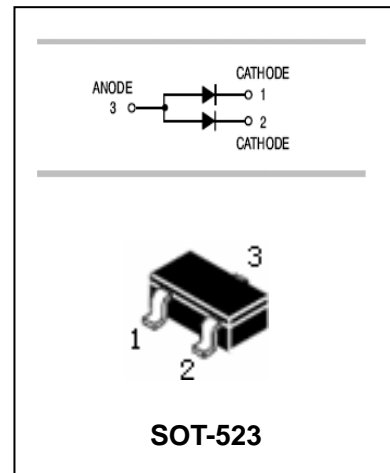


## SURFACE MOUNT FAST SWITCHING DIODE

## BAW56T

### FEATURES

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



### ORDERING INFORMATION

Type No.	Marking	Package Code
BAW56T	JD	SOT-523

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

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

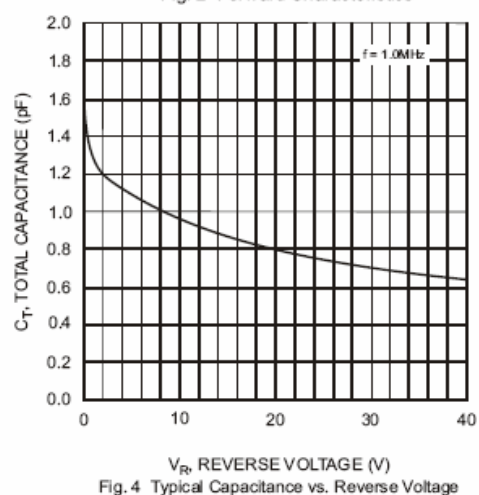
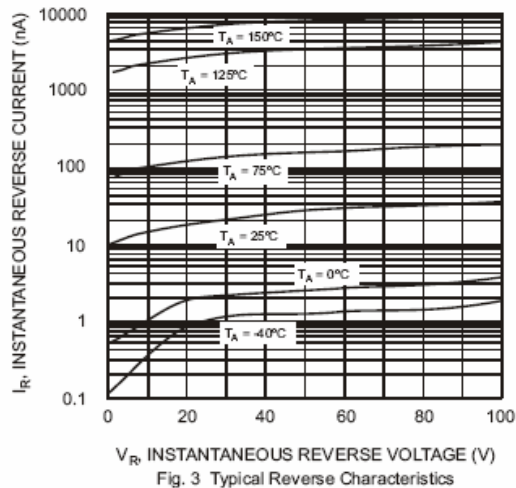
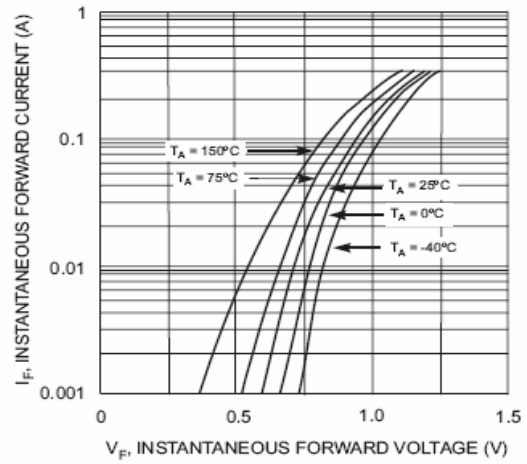
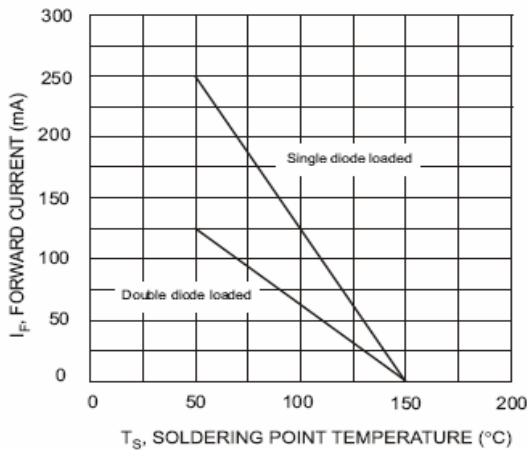
## SURFACE MOUNT FAST SWITCHING DIODE

**BAW56T**

### 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	$\mu A$
		$V_R=25V, T_j=150^\circ C$		60	$\mu A$
		$V_R=75V, T_j=150^\circ C$		100	$\mu A$
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



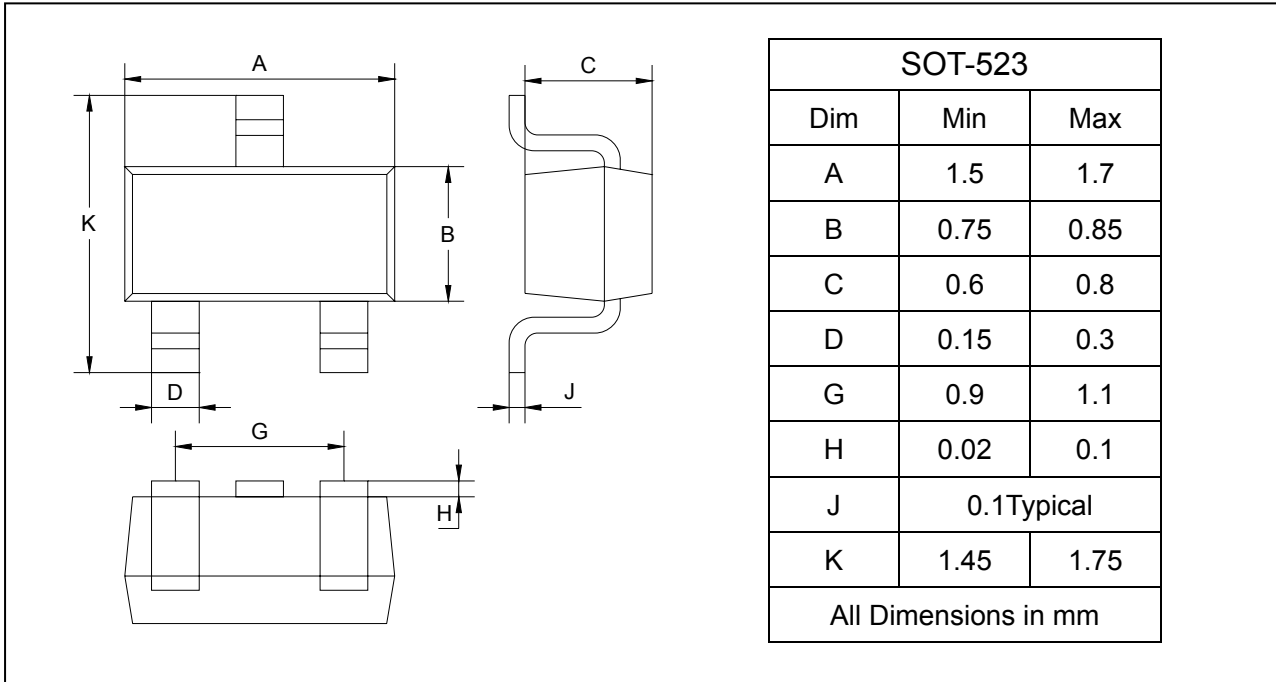
## SURFACE MOUNT FAST SWITCHING DIODE

**BAW56T**

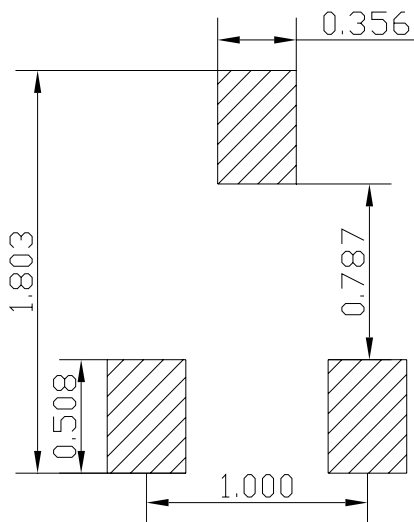
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

Device	Package	Shipping
BAW56T	SOT-523	3000/Tape&Reel

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