



# BAS40TG

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 40 Volts **CURRENT** 0.2 Amperes

SOD-723

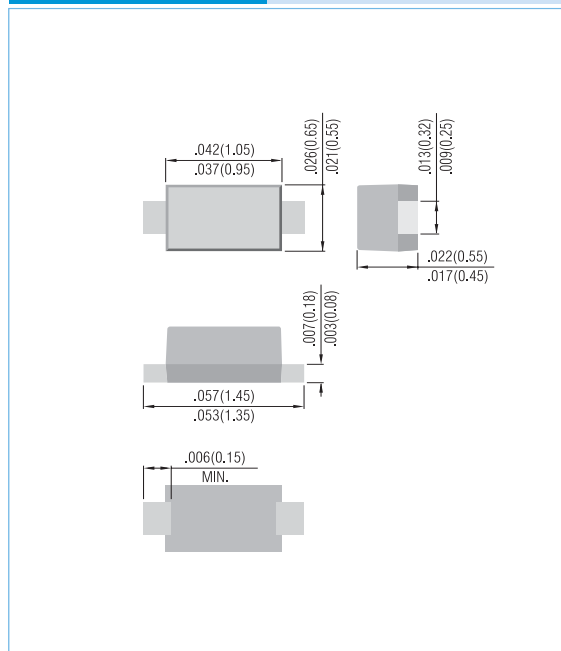
Unit: inch ( mm )

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SOD-723, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.00077 gram



### ABSOLUTE RATINGS (T<sub>A</sub>=25°C, unless otherwise noted)

PARAMETER	Symbol	BAS40TG	Units
Marking	-	BD	-
Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Average Rectified Current at T <sub>A</sub> =25°C	I <sub>F(AV)</sub>	0.2	A
Non-repetitive Peak Forward Surge Current at t=1000m s	I <sub>FSM</sub>	0.6	A
Power Dissipation	P <sub>TOT</sub>	200	mW
Junction Temperature and Storage Temperature Rang	T <sub>J</sub> , T <sub>STG</sub>	-55 to 125	°C
Thermal Resistance , Junction to Ambient	R <sub>θJA</sub>	635	°C/W



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## ELECTRICAL CHARACTERISTICS $(T_A=25^{\circ}\text{C}$ , unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	40	-	V
Reverse Current	$I_R$	$V_R=25\text{V}$	-	1.0	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=40\text{mA}$	-	0.38 0.5 1.0	V
Total Capacitance	$C_J$	$V_R=0\text{V}, f=1\text{MHz}$	-	5	pF

## ELECTRICAL CHARACTERISTICS CURVE

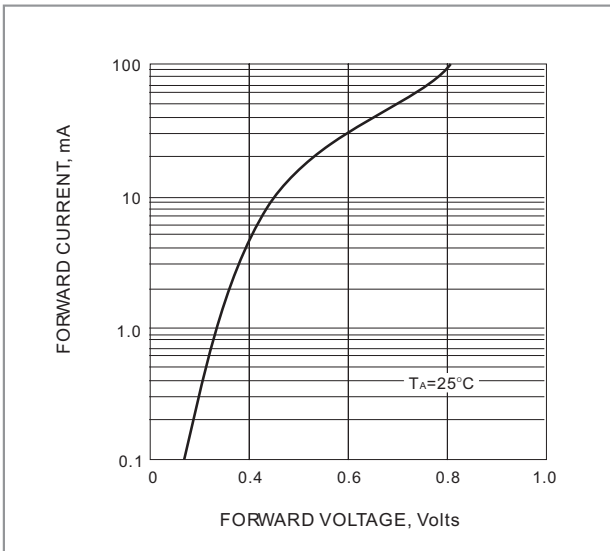


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

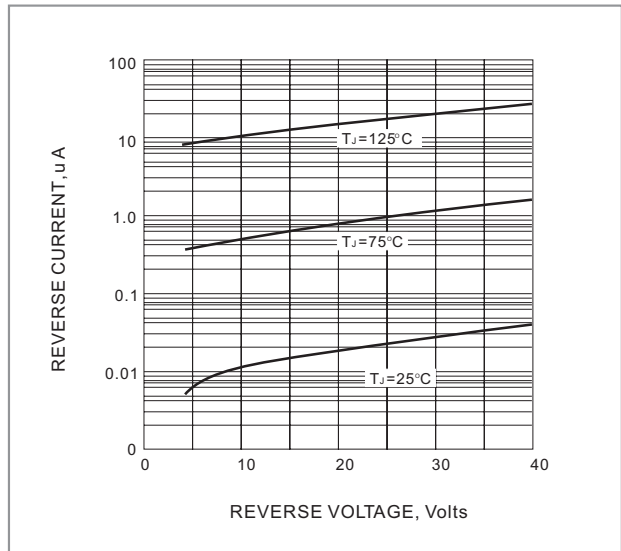


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

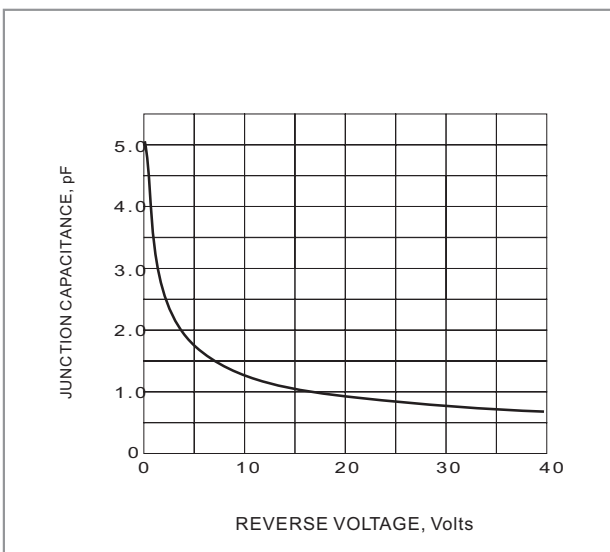


FIG. 3 TYPICAL JUNCTION CAPACITANCE

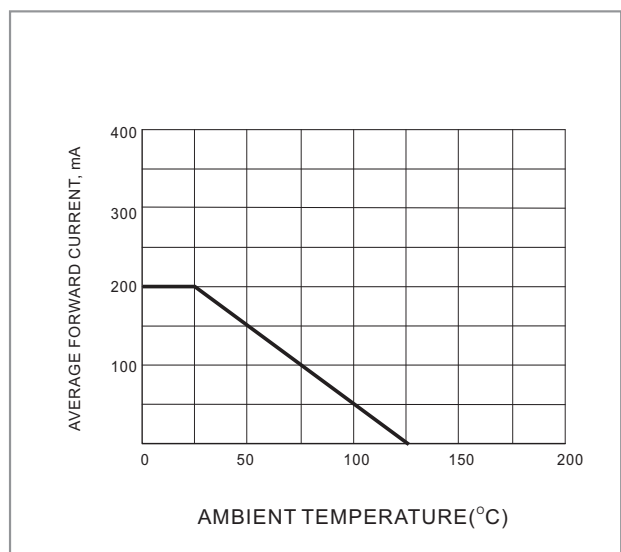


FIG. 4 FORWARD CURRENT DERATING

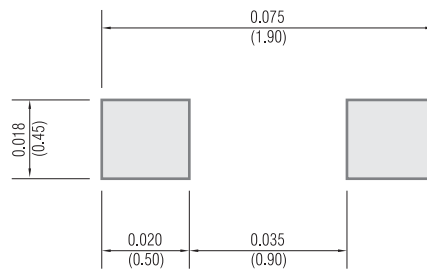


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## MOUNTING PAD LAYOUT

SOD-723

Unit: inch ( mm )



## ORDER INFORMATION

- Packing information

T/R - 8K per 7" plastic Reel

## LEGAL STATEMENT

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