



BAS40TG

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **CURRENT** 0.2 Amperes

SOD-723

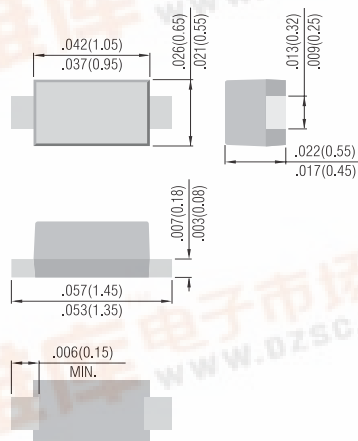
Unit: inch (mm)

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

PARAMETER	Symbol	BAS40TG	Units
Marking	-	BD	-
Peak Reverse Voltage	V_{RRM}	40	V
Average Rectified Current at $T_A = 25^\circ\text{C}$	$I_{F(AV)}$	0.2	A
Non-repetitive Peak Forward Surge Current at $t = 1000\text{ms}$	I_{FSM}	0.6	A
Power Dissipation	P_{TOT}	200	mW
Junction Temperature and Storage Temperature Rang	T_J, T_{STG}	-55 to 125	$^\circ\text{C}$
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	635	$^\circ\text{C/W}$

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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	μA
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

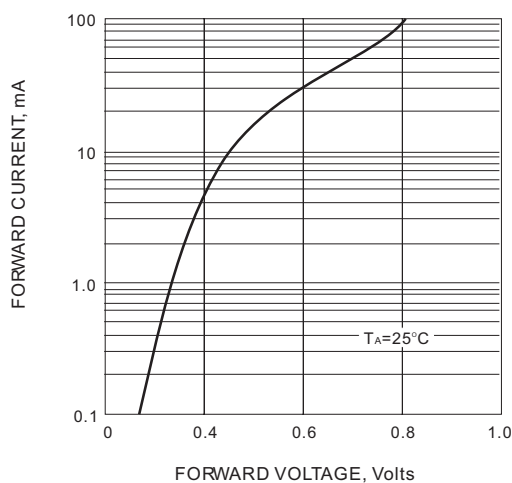


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

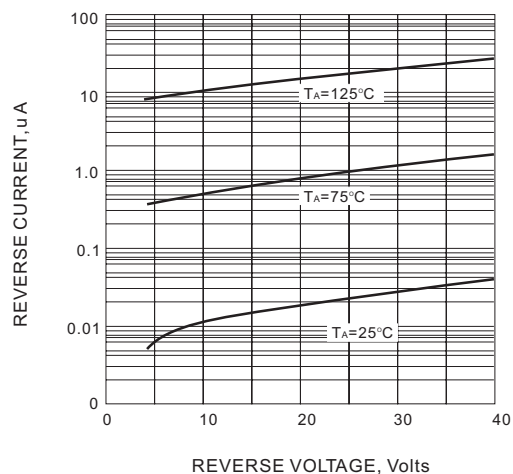


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

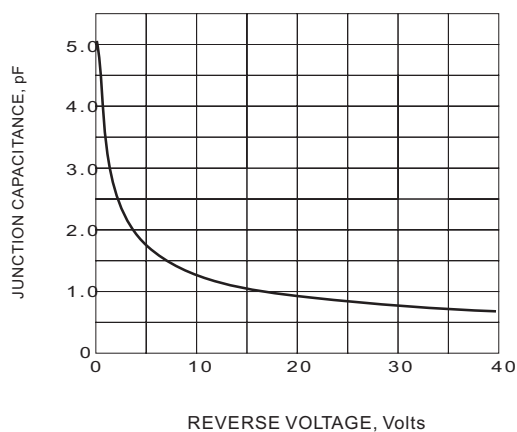


FIG. 3 TYPICAL JUNCTION CAPACITANCE

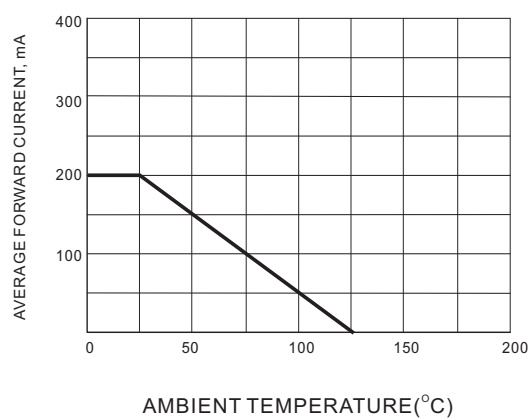


FIG. 4 FORWARD CURRENT DERATING

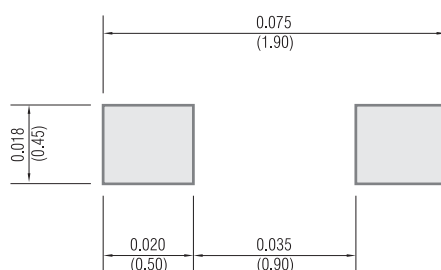


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MOUNTING PAD LAYOUT

SOD-723

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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