

BAS40TG

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **CURRENT** 0.2 Amperes

SOD-723

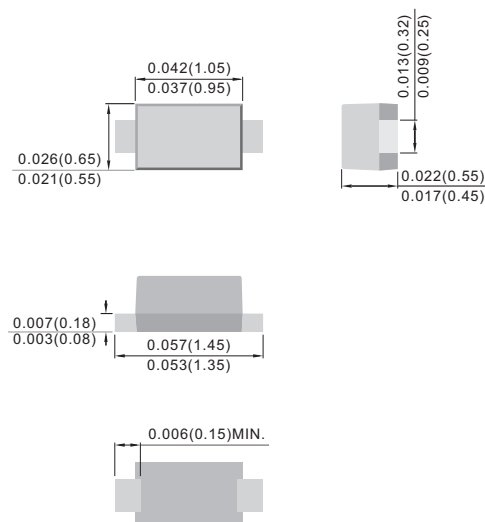
Unit: inch (mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-723, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.00081 gram



ABSOLUTE RATINGS (T_A=25°C , unless otherwise noted)

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

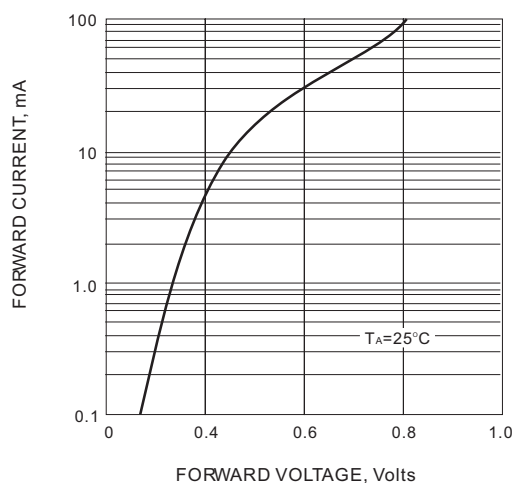


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

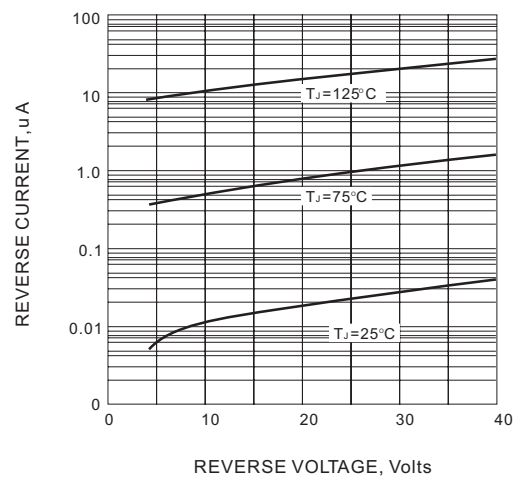


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

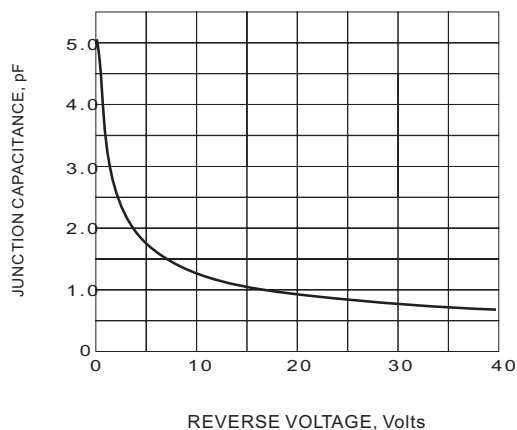


FIG. 3 TYPICAL JUNCTION CAPACITANCE

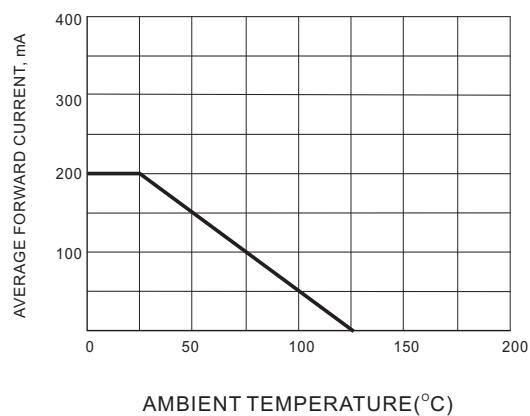


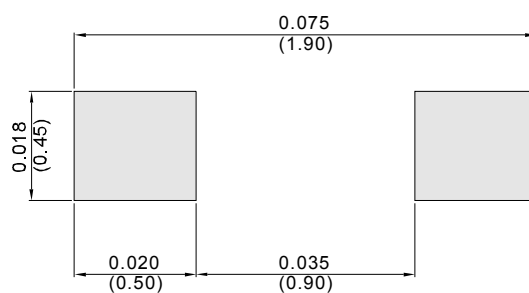
FIG. 4 FORWARD CURRENT DERATING

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MOUNTING PAD LAYOUT

SOD-723

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 8K per 7" plastic Reel

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Part No_packing code_Version

BAS40TG_R1_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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