



BAS40TS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **CURRENT** 0.2 Amperes

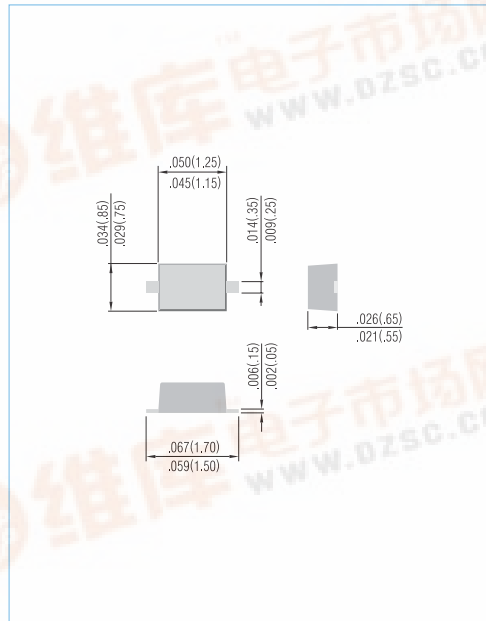
FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.0014 gram
- Marking : 40

SOD-523 Unit: inch (mm)



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

PARAMETER	Symbol	Value	Unit
Peak Reverse Voltage	V _{RRM}	40	V
Average Rectified Current at T _A =25°C	I _O	0.2	A
Non-repetitive Peak Forward Surge Current at t=8.3m s	I _{FSM}	500	mA
Power Dissipation	P _{TOT}	200	mW
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-40 to 125	°C

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Unit
Thermal Resistance, Junction to Ambient	R _{θJA}	635	°C/W





BAS40TS

ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	MAX.	Units
Reverse Breakdown Voltage	V _(BR)	I _R =10μA	40	-	V
Reverse Current	I _R	V _R =25V	-	1.0	μA
Forward Voltage	V _F	I _F =1mA I _F =10mA I _F =40mA	-	0.38 0.5 1.0	V
Total Capacitance	C _T	V _R =0V, f=1MHz	-	5	pF

ELECTRICAL CHARACTERISTICS CURVE

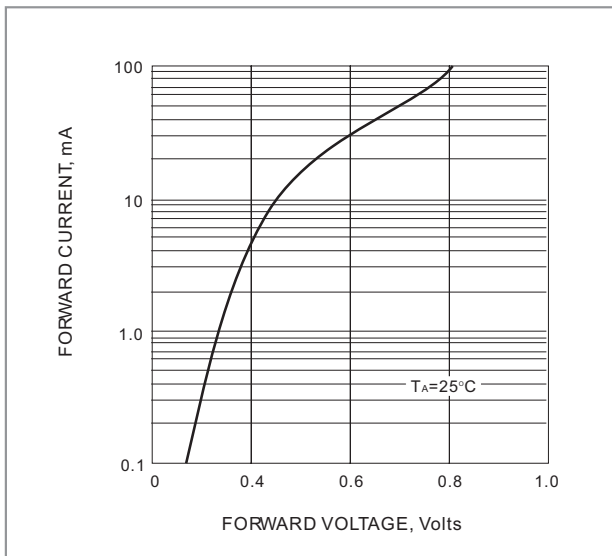


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

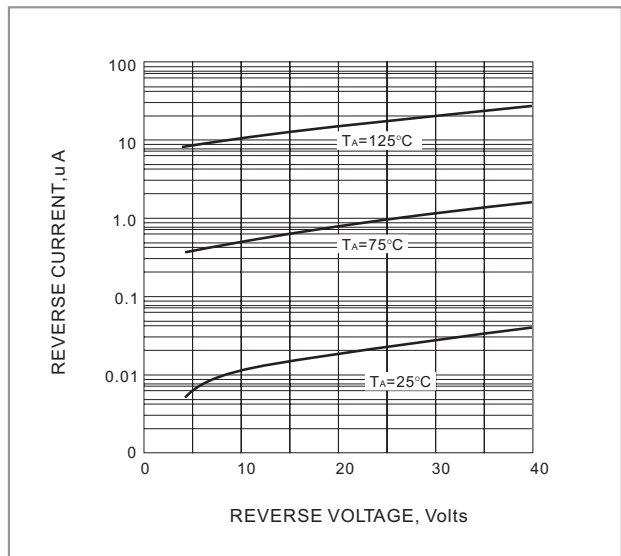


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

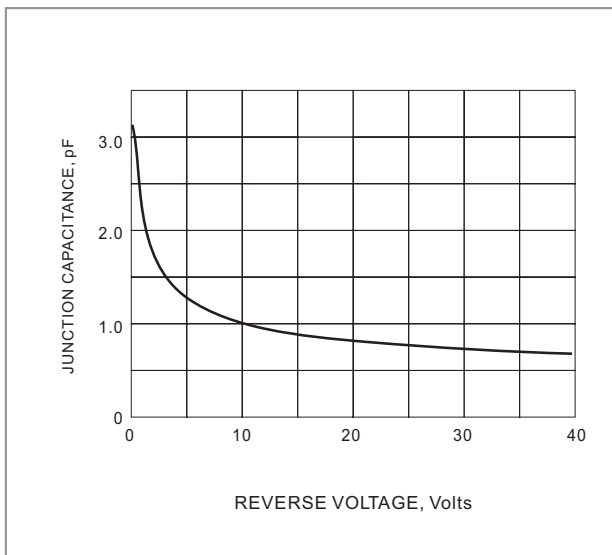


FIG. 3 TYPICAL JUNCTION CAPACITANCE

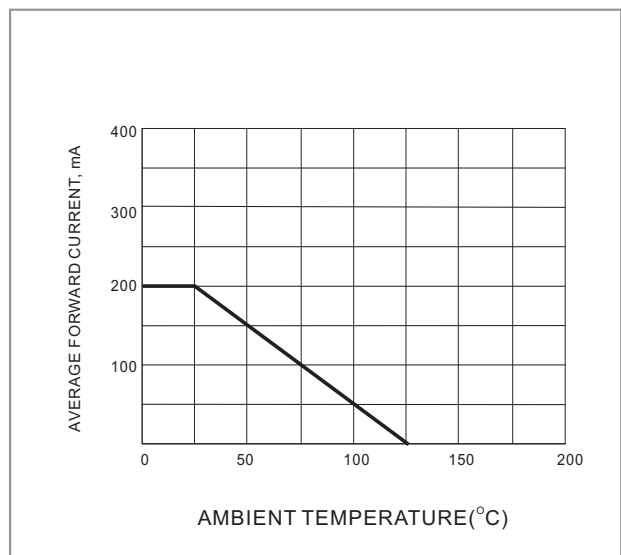
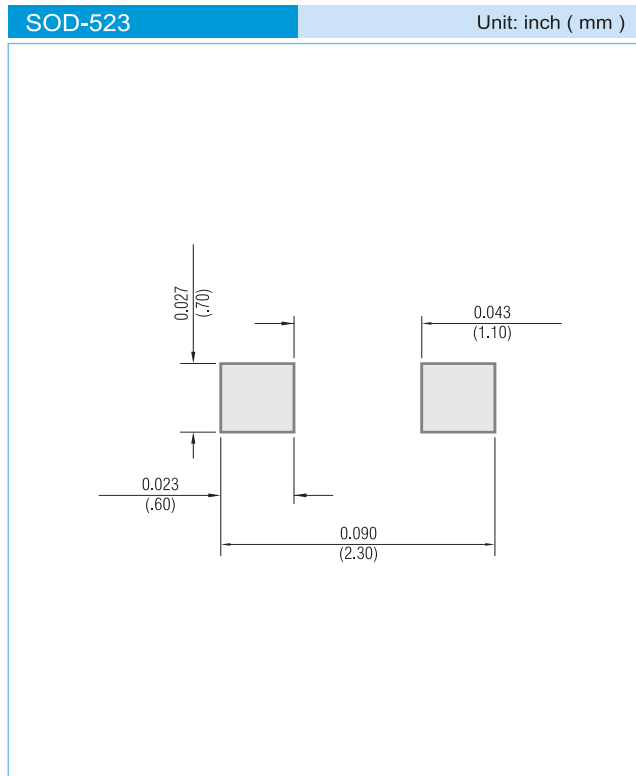


FIG. 4 FORWARD CURRENT DERATING



BAS40TS

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

Copyright PanJit International, Inc 2006

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.