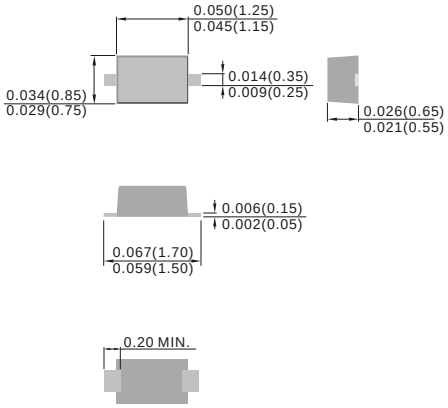
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SURFACE MOUNT SWITCHING DIODES

VOLTAGE	100 Volt	POWER	200 mWatt

SOD-523 Unit : inch(mm)

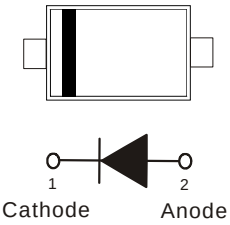


FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.00005 ounces, 0.0014grams
- Polarity: Color band denotes cathode end
- Standard packaging: 8mm tape



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code		A6	
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
RMS Voltage	V_{RMS}	50	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current	$I_{F(AV)}$	125	mA
Peak Forward Surge Current, 1μs	I_{FSM}	4	A
Power Dissipation Derate Above 25°C	P_{TOT}	200	mW
Maximum Forward Voltage	V_F	0.855@0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	1@75V	μA
Junction Capacitance	C_J	2	pF
Maximum Reverse Recovery	T_{RR}	6	ns
Typical Thermal Resistance	$R_{\theta JA}$	833	°C / W
Operating Junction Temperature and Storage Temperature Range	T_J	-55 to +150	°C

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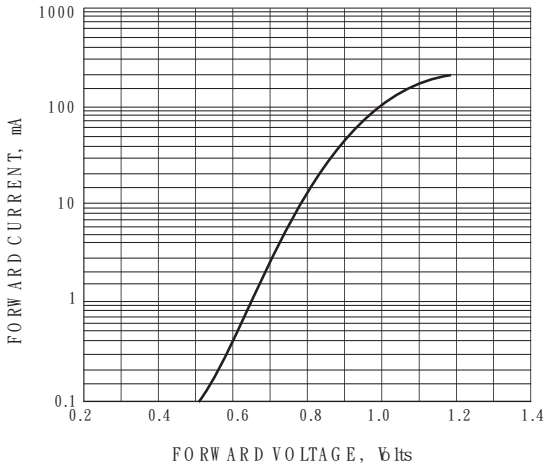


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

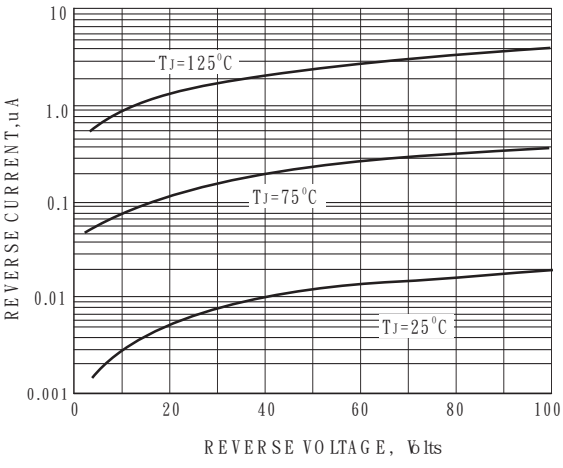


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

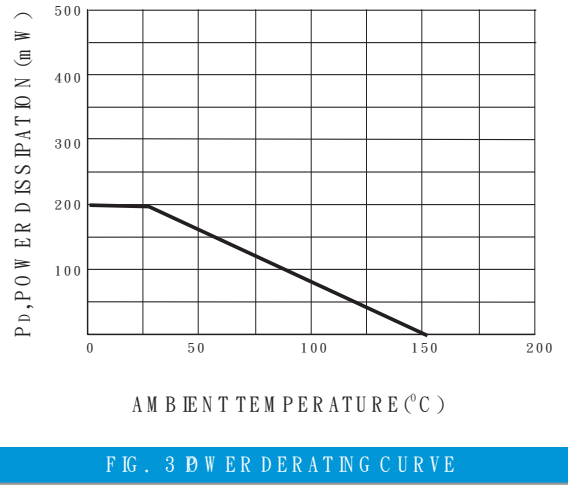
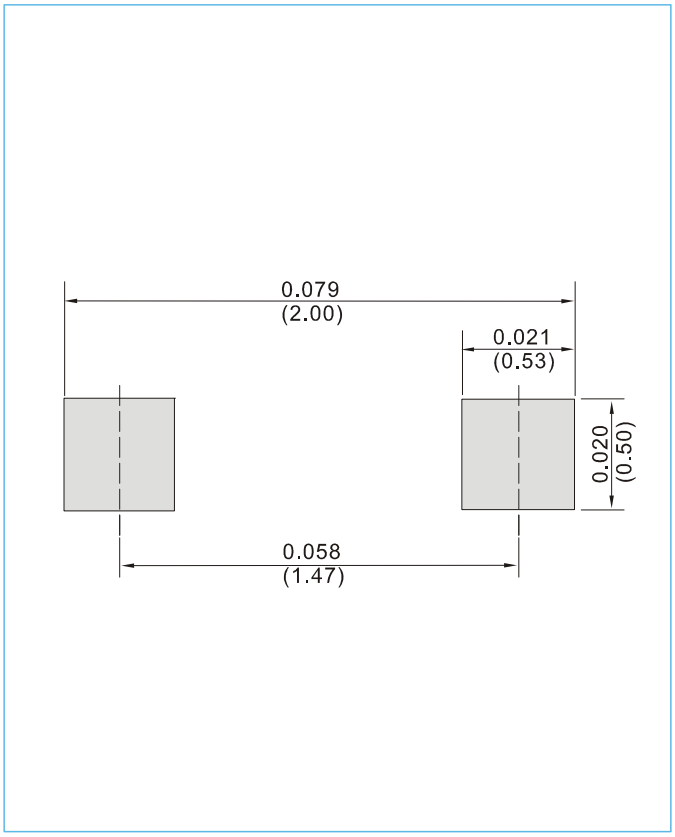


FIG. 3-POWER DERATING CURVE

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MOUNTING PAD LAYOUT

SOD-523 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

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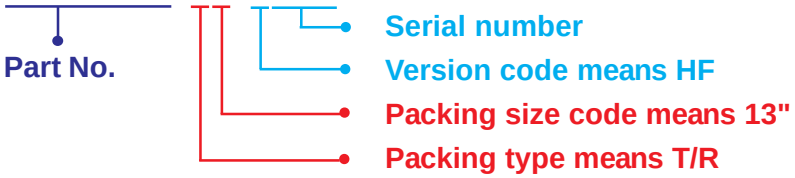
Part No_packing code_Version

BAS16TS-AU_R1_000A1

BAS16TS-AU_R2_000A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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