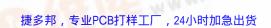
查询BAS21T_1供应商



В



BAS21T

Dim

Α

В

С

D

G

н

J

K

L

М

Ν

α

SOT-523

Max

0.30

0.85

1.75

1.10

1.70

0.10

0.80

0.30

0.20

0.65

8°

All Dimensions in mm

Тур

0.22

0.80

1.60

0.50

1.00

1.60

0.05

0.75

0.22

0.12

0.50

Min

0.15

0.75

1.45

0.90

1.50

0.00

0.60

0.10

0.10

0.45

0°

SURFACE MOUNT FAST SWITCHING DIODE

Features

- Ultra-Small Surface Mount Package
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device, Note 4 and 5

Mechanical Data

- Case: SOT-523
- Case Material: Molded Plastic, "Green" Molding Compound, Note 5. UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe)
- Polarity: See Diagram
- Marking: T3 (See Page 2)
- Weight: 0.002 grams (approximate)

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit				
Repetitive Peak Reverse Voltage	V _{RRM}	250	V				
Working Peak Reverse Voltage DC Blocking Voltage	V _{RWM} V _R	200 200	V				
RMS Reverse Voltage	V _{R(RMS)}	141					
Forward Continuous Current (Note 1)	IFM	400	mA				
Average Rectified Output Current (Note 1)	Io	200	mA				
Non-Repetitive Peak Forward Surge Current $@ t = 1.0 \mu s$ @ t = 1.0s	I _{FSM}	2.5 0.5					
Repetitive Peak Forward Surge Current	IFRM	625	mA				
Power Dissipation (Note 1)	Pd	150	mW				
Thermal Resistance Junction to Ambient (Note 1)	R _{0JA}	833	°C/W				
Operating and Storage Temperature Range	T_j , T_{STG}	-65 to +150	°C				

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	250		V	I _R = 100μA
Forward Voltage	VF		1.0 1.25	V	I _F = 100mA I _F = 200mA
Reverse Current @ Rated DC Blocking Voltage (Note 2)	I _R	_	100 15	nA μA	$\begin{array}{l} T_{j}=~25^{\circ}C\\ T_{j}=100^{\circ}C \end{array}$
Total Capacitance	CT		5.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		50	ns	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$

1. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at

http://www.diodes.com/datasheets/ap02001.pdf.

Short duration test pulse used to minimize self-heating effect.

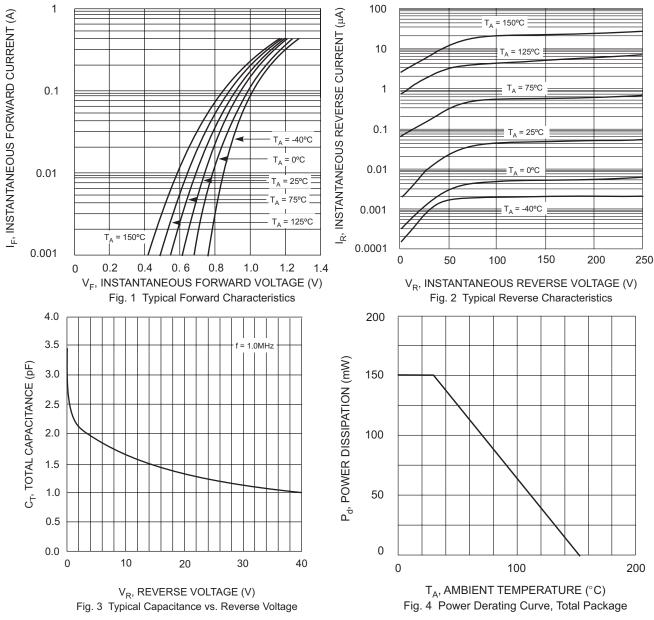
No purposefully added lead.

Notes:

biodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

5 Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.





Ordering Information (Note 5 & 6)

Device	Packaging	Shipping		
BAS21T-7-F	SOT-523	3000/Tape & Reel		

Notes: 5. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

6. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

Code Key		ТЗҮМ				T3 = Product Type Marking Code YM = Date Code Marking Y = Year (ex: N = 2002) M = Month (ex: 9 = September)							
Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
Code	М	N	Р	R	S	Т	U	V	W	X	Y	Z	
Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Code	1	2	3	4	5	6	7	8	9	0	N	D	



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