#### 查询BAS20DW-7供应商

# 捷多邦,专业PCB打样工厂,24小时加急出货

# CODES

# **BAS20DW-BAS21DW**

# SURFACE MOUNT LOW LEAKAGE DIODE

SOT-363

Min

0.10

1.15

2.00

0.30

1.80

0.90

0.25

0.10

0°

All Dimensions in mm

Max

0.30

1.35

2.20

0.40

2.20

0.10

1.00

0.40

0.25

8°

0.65 Nominal

Dim

A

В

С

D

F

н

J

Κ

L

M

α



- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Lead Free By Design/RoHS Compliant (Note 3)
- "Green Device" (Note 4)

#### **Mechanical Data**

- Case: SOT-363, Molded Plastic
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminal Connections: See Diagram
- Terminals: Finish Matte Tin annealed over Alloy 42 leadframe. Solderable per MIL-STD-202, Method 208
- BAS20DW Marking: KT2 or KT3 (See Page 3)
- BAS21DW Marking: KT3 (See Page 3)
- Marking & Type Code Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.003 grams (approx.)

#### **Maximum Ratings** @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	BAS20DW	BAS21DW	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RWM</sub> VR	150	200	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	106	141	V
Forward Continuous Current	I <sub>FM</sub>	40	0	mA
Average Rectified Output Current	I <sub>O</sub>	20	0	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0 \mu s$ @ $t = 1.0 s$	I <sub>FSM</sub>	2.5 0.5		A
Repetitive Peak Forward Surge Current	I <sub>FRM</sub>	62	5	mA
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to	+150	°C

→|A|<del><</del>

TOP VIEW

В

## **Thermal Characteristics, Total Package** @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Pd	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R <sub>0JA</sub>	625	°C/W

### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
	20DW 21DW V <sub>(BR)R</sub>	200 250		V	I <sub>R</sub> = 100μA
Forward Voltage (Note 2)	VF	_	1.0 1.25	V	I <sub>F</sub> = 100mA I <sub>F</sub> = 200mA
Reverse Current @ Rated DC Blocking Voltage (Note 2)	I <sub>R</sub>	_	100 15	nA μA	$\begin{array}{l} T_{j}=~25^{\circ}C\\ T_{j}=~100^{\circ}C \end{array}$
Total Capacitance		_	5.0	pF	V <sub>R</sub> = 0, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	_	50	ns	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R = 1000$

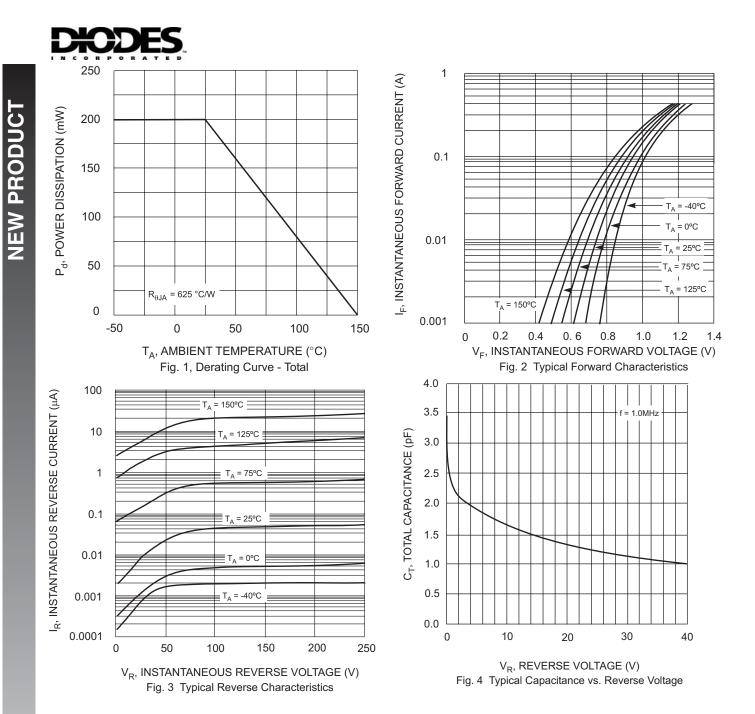
1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website

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

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

3. No purposefully added lead.

4 Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead\_free/index.phi



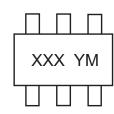


# Ordering Information (Note 5)

Device	Packaging	Shipping			
BAS20DW-7	SOT-363	3000/Tape & Reel			
BAS21DW-7	SOT-363	3000/Tape & Reel			

Notes: 5. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

# **Marking Information**



XXX= Product Type Marking Code (See Page 1) YM = Date Code Marking Y = Year (ex: S = 2005) M = Month (ex: 9 = September)

Date Code Key

Year			2005	2	2006		2007		В	2009		
Code		S		Т		U		V		W		
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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