#### 查询BAS70W-7-F供应商



## 捷多邦,专业PCB打样工厂,24小时加急出货

# BAS70W/ -04/ -05/ -06

### SURFACE MOUNT SCHOTTKY BARRIER DIODE

#### Features Low Turn-on Voltage Fast Switching SOT-323 PN Junction Guard Ring for Transient and ESD Protection Dim Min Max Ultra-Small Surface Mount Package Α 0.25 0.40 Lead Free/RoHS Compliant (Note 3) В 1.15 1.35 "Green" Device (Note 4 and 5) ·B С 2.00 2.20 **Mechanical Data** D 0.65 Nominal Case: SOT-323 . Е 0.30 0.40 Case Material: Molded Plastic, "Green" Molding Compound, G 1.20 1.40 Note 5. UL Flammability Classification Rating 94V-0 н 1.80 2.20 Moisture Sensitivity: Level 1 per J-STD-020C J 0.0 0.10 Terminals: Solderable per MIL-STD-202, Method 208 κ 0.90 1.00 Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe). L 0.25 0.40 Polarity: See Diagrams Below М 0.10 0.18 Marking: See Diagrams Below & Page 3 α 0° 8° TOP VIEW Weight: 0.006 grams (approximate) All Dimensions in mm ク BAS70W Marking: K73 BAS70W-05 Marking: K75 BAS70W-06 Marking: K76 BAS70W-04 Marking: K74 Maximum Ratings and Electrical Characteristics, Single Diode @ TA = 25°C unless otherwise specified Characteristic Symbol Value Unit Peak Repetitive Reverse Voltage VRRM V<sub>RWM</sub> V<sub>R</sub> 70 V Working Peak Reverse Voltage DC Blocking Voltage RMS Reverse Voltage VR(RMS) 49 V

Forward Continuous Current (Note 1)	IF	70	mA		
Non-Repetitive Peak Forward Surge Current @ tp < 1.0s	I <sub>FSM</sub>	100	mA		
Power Dissipation (Note 1)	Pd	200	mW		
Thermal Resistance Junction to Ambient Air (Note 1)	R <sub>0JA</sub>	625	°C/W		
Operating Temperature Range	Tj	-55 to +125	°C		
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C		

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

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V <sub>(BR)R</sub>	70	_	_	$I_R = 10 \mu A$
Forward Voltage	V <sub>F</sub>	_	410 1000	mV	$t_p$ <300µs, I <sub>F</sub> = 1.0mA $t_p$ <300µs, I <sub>F</sub> = 15mA
Reverse Current (Note 2)	I <sub>R</sub>	—	100	nA	$t_p < 300 \mu s, V_R = 50 V$
Total Capacitance	CT	_	2.0	pF	$V_R = 0V$ , f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	_	5.0	ns	$\label{eq:lastic_linear} \begin{array}{l} I_F = I_R = 10 mA \text{ to } I_R = 1.0 mA, \\ Irr = 0.1 \text{ x } I_R, \ R_L = 100 \Omega \end{array}$



Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, 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.

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

Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date



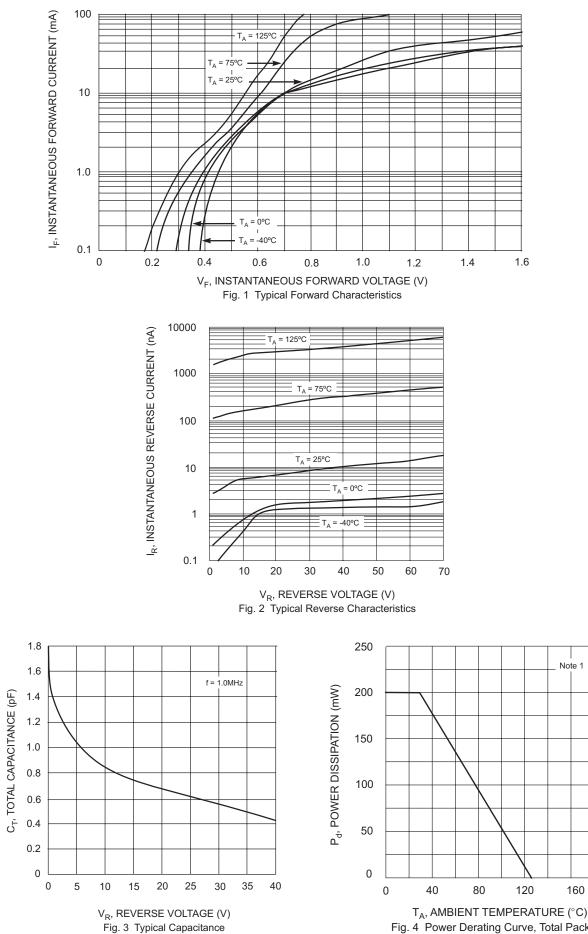


Fig. 4 Power Derating Curve, Total Package

200



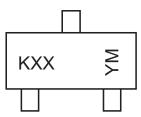
#### Ordering Information (Note 5 and 6)

Device	Packaging	Shipping
BAS70W-7-F	SOT-323	3000/Tape & Reel
BAS70W-04-7-F	SOT-323	3000/Tape & Reel
BAS70W-05-7-F	SOT-323	3000/Tape & Reel
BAS70W-06-7-F	SOT-323	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**



 $\begin{array}{l} \mathsf{KXX} = \mathsf{Product} \ \mathsf{Type} \ \mathsf{Marking} \ \mathsf{Code} \ (\mathsf{See} \ \mathsf{Page} \ 1) \\ \mathsf{YM} = \mathsf{Date} \ \mathsf{Code} \ \mathsf{Marking} \\ \mathsf{Y} = \mathsf{Year} \ \mathsf{ex:} \ \mathsf{N} = 2002 \\ \mathsf{M} = \mathsf{Month} \ \mathsf{ex:} \ 9 = \mathsf{September} \end{array}$ 

Date Code Key

Year	2002	200	3 20	04	2005	20	006	2007	2008	200	)9 2	2010	2011	2012
Code	Ν	P		۲	S		Т	U	V	N	/	Х	Y	Z
Month		Jan	Feb	Mar	ch A	pr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code		1	2	3	4	1	5	6	7	8	9	0	N	D

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