

BAS40TW /DW-04 /DW-05 / DW-06 /BRW

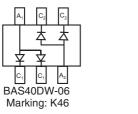
SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

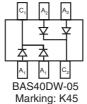
Features

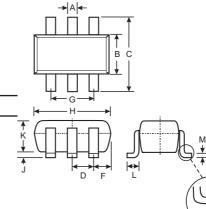
- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free/RoHS Compliant (Note 3)
- Qualified to AEC-Q101 Standards for High Reliability

Mechanical Data

- Case: SOT-363
- Case Material: Molded Plastic. 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 Diagrams Below
- Marking: See Diagrams Below & Page 3
- Weight: 0.006 grams (approximate)

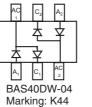


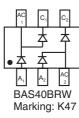


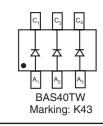


SOT-363									
Dim	Min	Max							
Α	0.10	0.30							
В	1.15	1.35							
С	2.00	2.20							
D	0.65 Nominal								
F	0.30	0.40 2.20							
н	1.80								
J		0.10							
к	0.90	1.00							
L	0.25	0.40 0.25							
М	0.10								
α	0°	8°							
All Dimensions in mm									

TOP VIEW







Maximum Ratings @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Value	Unit		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V		
RMS Reverse Voltage	V _{R(RMS)}	28	V		
Forward Continuous Current (Note 1)	I _{FM}	200	mA		
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	I _{FSM}	600	mA		
Power Dissipation (Note 1)	Pd	200	mW		
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{ heta JA}$	625	°C/W		
Operating and Storage Temperature Range	T _j , Tstg	-55 to +125 -65 to +125	°C		

Electrical Characteristics @ T_A = 25°C unless otherwise specified

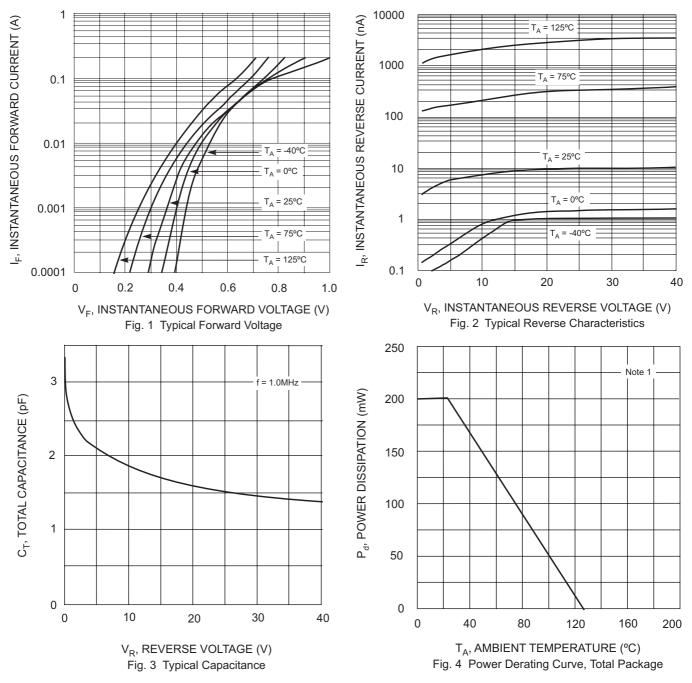
Characteristic	Symbol	Min	Max	Unit	Test Condition		
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	—	V	I _R = 10μA		
Forward Voltage	VF		380 1000	mV mV	$I_F = 1.0 m A, t_p < 300 \mu s$ $I_F = 40 m A, t_p < 300 \mu s$		
Reverse Current (Note 2)	I _R		200	nA	V _R = 30V		
Total Capacitance	CT		5.0	pF	V _R = 0, f = 1.0MHz		
Reverse Recovery Time	t _{rr}		5.0	ns	$ I_F = I_R = 10 m A, \\ I_{rr} = 0.1 x I_R, R_L = 100 \Omega $		

Notes: 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. 2. Short duration test pulse used to minimize self-heating effect.

3. No purposefully added lead.

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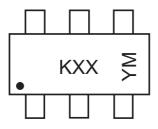


Ordering Information (Note 4)

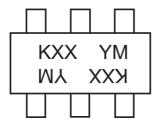
Device	Packaging	Shipping							
BAS40TW-7-F	SOT-363	3000/Tape & Reel							
BAS40DW-04-7-F	SOT-363	3000/Tape & Reel							
BAS40DW-05-7-F	SOT-363	3000/Tape & Reel							
BAS40DW-06-7-F	SOT-363	3000/Tape & Reel							
BAS40BRW-7-F	SOT-363	3000/Tape & Reel							

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



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



KXX = Product Type Marking Code (See Page 1) For Symmetrical Configuration, no orientation indicator YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September

Date Code Key

Year	2000	2001	2002	2003	2004	2005	2006	6 200)7	2008	2009	2010	2011	2012
Code	L	М	N	Р	R	S	Т	U		V	W	Х	Y	Z
Month		Jan	Feb	March	Apr	Мау	Jun	Jul	Au	ıg	Sep	Oct	Nov	Dec
Code		1	2	3	4	5	6	7	8	;	9	0	Ν	D

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