



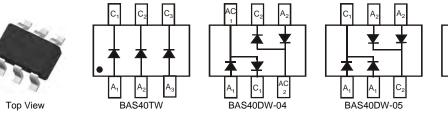
SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

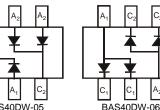
Features

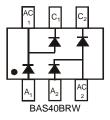
- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free/RoHS Compliant (Note 3)
- Qualified to AEC-Q101 Standards for High Reliability
- "Green" Device (Notes 4 and 5)

Mechanical Data

- Case: SOT-363
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagrams Below
- Marking Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.006 grams (approximate)







Maximum Ratings @T_A = 25°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

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{ ext{ heta}JA}$	625	°C/W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +125	O°

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	V _F	_	380 1000	mV mV	I _F = 1.0mA, t _p < 300μs I _F = 40mA, t _p < 300μs
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	trr	_	5.0	ns	$I_{F} = I_{R} = 10 \text{mA},$ $I_{rr} = 0.1 \times I_{R}, R_{L} = 100 \Omega$

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 pulse test used to minimize self-heating effect.

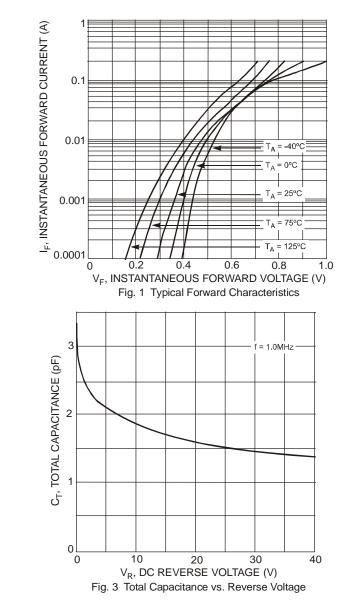
3. No purposefully added lead.

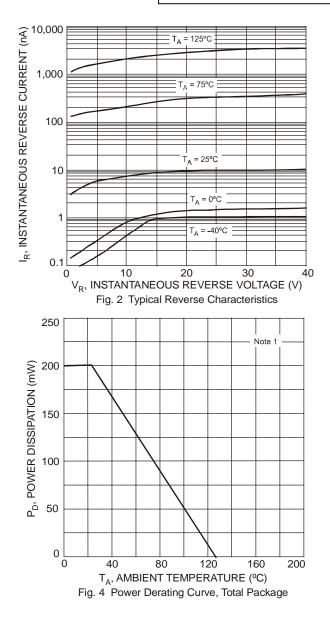
4. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

Product manufactured with Date Code UO (week 40, 2007) and newer are built with Green Molding Compound. Product manufactured prior to Date 5. Code UO are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants



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





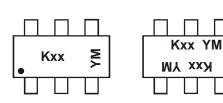


Ordering Information (Note 6)

Part Number	Case	Packaging
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: 6. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



Kxx = Product Type Marking Code

K43 = BAS40TW

K44 = BAS40DW-04 K45 = BAS40DW-05

- K46 = BAS40DW-06 K47 = BAS40BRW

For Assymetrical Configuration, orientation indicator as shown

For Symmetrical Configuration, no orientation indicator

YM = Date Code Marking

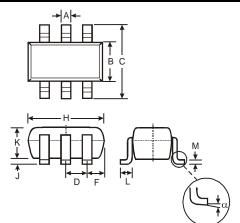
Y = Year (ex: N = 2002)

M = Month (ex: 9 = September)

Date Code Key	
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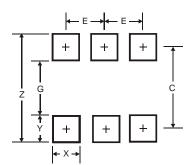
Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	L	М	Ν	Р	R	S	Т	U	V	W	Х	Y	Z	А	В	С
Month	Jan	F	eb	Mar	Apr	М	ay	Jun	Jul	A	ug	Sep	Oct	N	ov	Dec
Code	1	:	2	3	4	4	5	6	7	5	3	9	0	1	N	D

Package Outline Dimensions



SOT-363						
Dim	Min	Max				
Α	0.10	0.30				
в	1.15	1.35				
С	2.00	2.20				
D	0.65 No	0.65 Nominal				
F	0.40 0.45					
Н	1.80	2.20				
J	0 0.10					
κ	0.90	1.00				
L	0.25	0.40				
Μ	0.10	0.22				
α	0°	8°				
All Di	mensions	in mm				

Suggested Pad Layout



Dimensions	Value (in mm)
Z	2.5
G	1.3
Х	0.42
Y	0.6
С	1.9
E	0.65

BAS40TW /DW-04 /DW-05 /DW-06 /BRW Document number: DS30156 Rev. 13 - 2



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>>Diodes Incorporated(达迩科技(美台))