



SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS

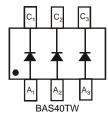
Features

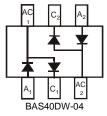
- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free/RoHS Compliant (Note 3)
- Qualified to AEC-Q101 Standards for High Reliability
- "Green" Device (Notes 4 and 5)

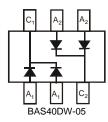
Mechanical Data

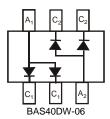
- Case: SOT-363
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagrams Below
- Marking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

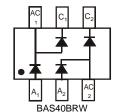












Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	٧
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)	P _D	200	mW
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{ hetaJA}$	625	°C/W
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +125	°C

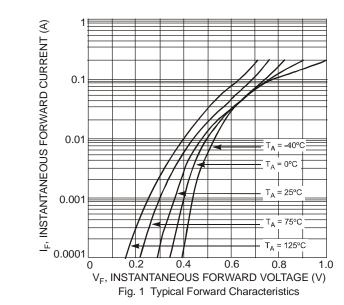
Electrical Characteristics @TA = 25°C unless otherwise specified

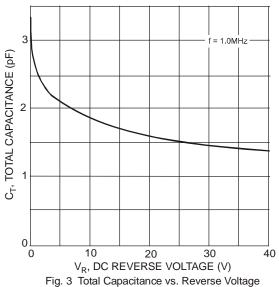
Characteristic	Symbol Min		Max	Unit	Test Condition		
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	40	_	V	$I_R = 10\mu A$		
Forward Voltage	V _F	_	380 1000		I_F = 1.0mA, t_p < 300μs I_F = 40mA, t_p < 300μs		
Reverse Current (Note 2)	I _R	_	200	nA	$V_R = 30V$		
Total Capacitance	C _T	_	5.0	pF	$V_R = 0, f = 1.0MHz$		
Reverse Recovery Time	t _{rr}	_	5.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		

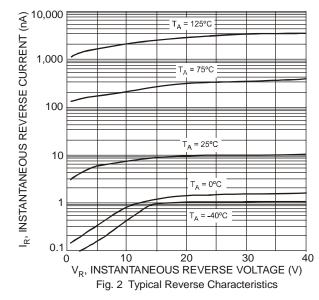
Notes:

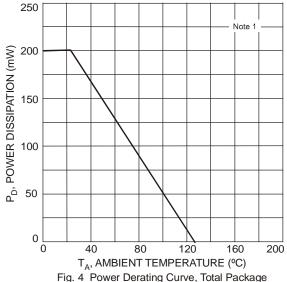
- 1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
- 2. Short duration pulse test used to minimize self-heating effect.
- 3. No purposefully added lead.
- 4. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.
- 5. Product manufactured with Date Code UO (week 40, 2007) and newer are built with Green Molding Compound. Product manufactured prior to Date Code UO are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants











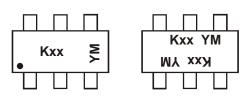


Ordering Information (Note 6)

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

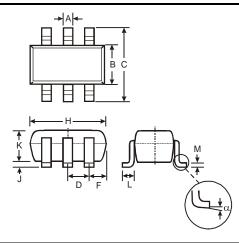
YM = Date Code Marking

Y = Year (ex: N = 2002) M = Month (ex: 9 = September)

Date Code Key

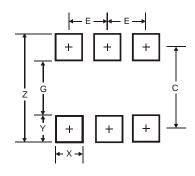
Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	L	М	Ν	Р	R	S	Т	U	V	W	Х	Υ	Z	Α	В	С
Month	Jan	F	eb	Mar	Apr	М	ay	Jun	Jul	Α	ug	Sep	Oct	N	ov	Dec
Code	1	:	2	3	4		5	6	7		8	9	0	1	٧	D

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	ominal			
F	0.40	0.45			
Н	1.80	2.20			
J	0	0.10			
K	0.90	1.00			
L	0.25	0.40			
М	0.10	0.22			
α	0°	8°			
All Dimensions in mm					

Suggested Pad Layout



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



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