



July 2008

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

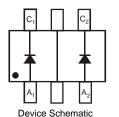
Features

- 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)
- "Green" Device (Note 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).
- Orientation: See Diagram
- Marking Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.006 grams (approximate)



(Jumper connection between middle pins)

Maximum Ratings @T_A = 25°C unless otherwise specified

Characte	ristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage			V _{RRM} V _R WM V _R	30	V
Forward Continuous Current		(Note 1)	I _F	200	mA
Repetitive Peak Forward Current		(Note 1)	I _{FRM}	300	mA
Forward Surge Current	(Note 1)	@ 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 and Storage Temperature Range		T _J , T _{STG}	-65 to +125	°C	

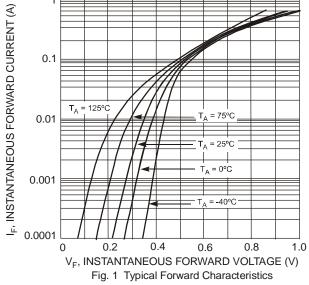
Electrical Characteristics @T_A = 25°C unless otherwise specified

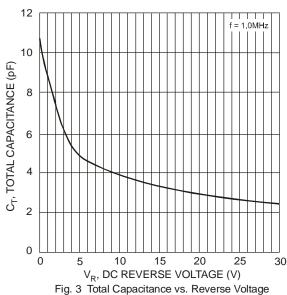
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition		
Reverse Breakdown Voltage	(Note 2)	V _{(BR)R}	30	_	_	V	$I_R = 100 \mu A$	
Forward Voltage		V _F	_	_	240 320 400 500 1000	mV	I _F = 0.1mA I _F = 1mA I _F = 10mA I _F = 30mA I _F = 100mA	
Reverse Leakage Current	(Note 2)	I _R	_	_	2.0	μА	V _R = 25V	
Total Capacitance		C _T	_	_	10	pF	V _R = 1.0V, f = 1.0MHz	
Reverse Recovery Time		t _{rr}	_	_	5.0	ns	I_F = 10mA through I_R = 10mA to I_R = 1.0mA, R_L = 100 Ω	

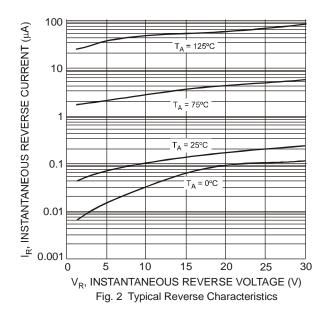
Notes:

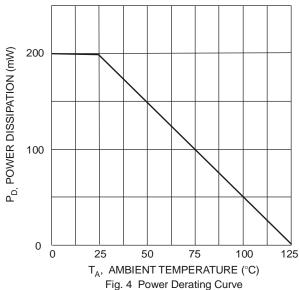
- 1. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
- 2. Short duration pulse test used to minimize self-heating effect.
- 3. No purposefully added lead.
- 4. Diodes Inc.'s "Green" policy can be found on 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.









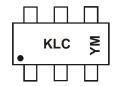


Ordering Information (Note 6)

Part Number	Case	Packaging		
BAT54JW-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



KLC = Product Type Marking Code YM = Date Code Marking Y = Year (ex: N = 2002) M = Month (ex: 9 = September)

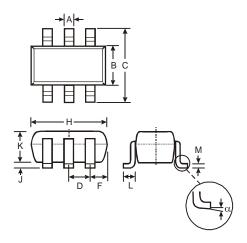
Date Code Key

Code

-	2410 0040 1)														
	Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Code	М	Ν	Р	R	S	Т	U	V	W	Х	Υ	Z	Α	В	С
Ī	Month	Jan	Fe	b	Mar	Apr	May	Ju	n	Jul	Aug	Sep	Oc	t	Nov	Dec

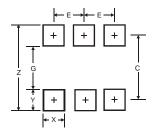


Package Outline Dimensions



SOT-363						
Dim	Min	Max				
Α	0.10	0.30				
В	1.15 1.35					
С	2.00	2.20				
D	0.65	Тур				
F	0.40 0.45					
Н	1.80 2.20					
J	0 0.10					
K	0.90 1.00					
١	0.25 0.40					
M	0.10 0.22					
α	0°	8°				
All Di	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

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Diodes Incorporated manufacturer:

Other Similar products are found below:

MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR RB551V-30

BAS16E6433HTMA1 BAT 54-02LRH E6327 NSR05F40QNXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SK310-T SK32A-LTP SK34B-TP SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF ACDBA260LR-HF ACDBA1100-HF SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G SB560 PMAD1108-LF SD103ATW-TP 1N5819T-G PDS1040Q-13 MBR3060FCTe3/TU