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SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

Features

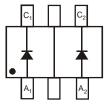
- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device (Note 4 and 5)



Top View

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)

Device Schematic

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			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:

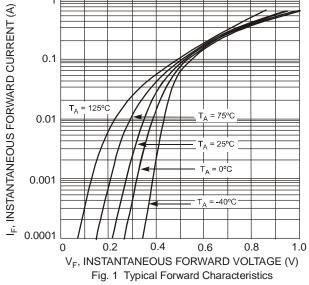
- Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
- 2. Short duration pulse test used to minimize self-heating effect.
- No purposefully added lead.

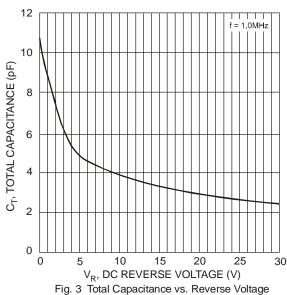
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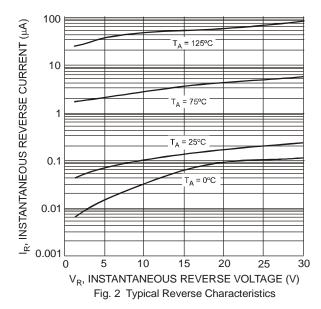
- 4. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.
- 5. Product manufactured with Date Code UO (week 40, 2007) and newer are built with Green Molding Compound. Product manufactured prior to Date Code UO are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

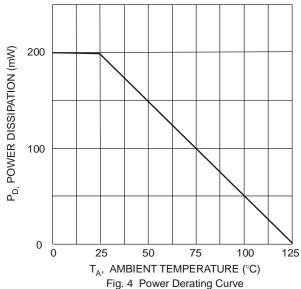
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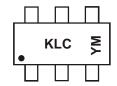


Ordering Information (Note 6)

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

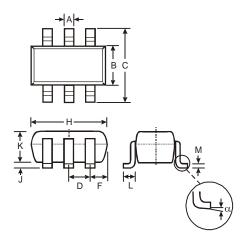
Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	М	N	Р	R	S	Т	U	V	W	Х	Υ	Z	Α	В	С
														,	

 Month
 Jan
 Feb
 Mar
 Apr
 May
 Jun
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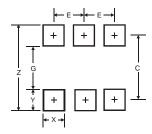


Package Outline Dimensions



SOT-363								
Dim	Min	Max						
Α	0.10	0.30						
В	1.15 1.35							
C	2.00 2.20							
D	0.65	0.65 Typ						
F	0.40 0.45							
Н	1.80 2.20							
7	0 0.10							
K	0.90 1.00							
١	0.25 0.40							
М	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
Y	0.6
С	1.9
E	0.65

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单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))