

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

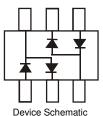
Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Reverse Capacitance
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device, (Note 4 and 5)



Mechanical Data

- Case: SOT-26
- Case Material: Molded Plastic, "Green" Molding Compound, Note 5. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Polarity: See Diagram
- Leads: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Copper leadframe).
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 0.016 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}	350	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s	I _{FSM}	1.5	Α

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	225	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	444	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +125	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

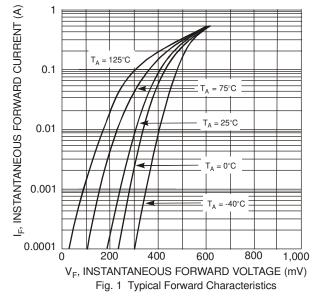
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	40		_	V	$I_R = 100 \mu A$
Forward Voltage Drop	V _F		_	0.37 0.50 0.60	V	I _F = 20mA I _F = 100mA I _F = 200mA
Reverse Current (Note 2)	I _R		_	5.0	μΑ	$V_R = 30V$
Total Capacitance	C _T	_	50	_	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	t _{rr}	_	10	_	ns	$I_F = I_R = 200 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$

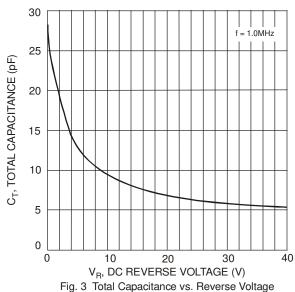
- Notes: 1. Device mounted on FR-5 PCB 1.0 x 0.75 x 0.062 inch pad layout as shown on Diodes Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
 - Short duration pulse test used to minimize self-heating effect.
 - No purposefully added lead.

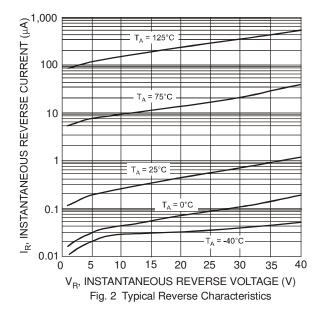
 - Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

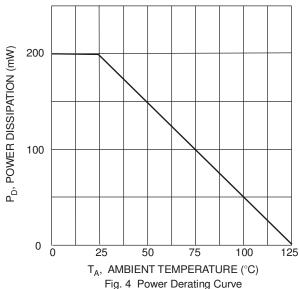
 Product manufactured with Date Code 0627 (week 27, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0627 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.









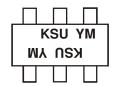


Ordering Information (Notes 5 & 6)

-			
	Part Number	Case	Packaging
	SD103ASDM-7-F	SOT-26	3000/Tape & Reel

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

Marking Information



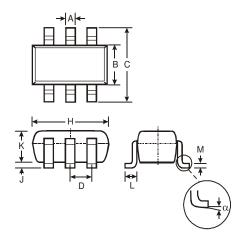
KSU = Product Type Marking Code YM = Date Code Marking Y = Year (ex: T = 2006) M = Month (ex: 9 = September)

Date Code Key

Date Code is	.cy													
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	N	Р	R	S	Т	U	V	W	Х	Υ	Z	Α	В	С
Month	Jan	Feb	Ма	ir /	Apr	May	Jun	Jul	Aug	Se	p (Oct	Nov	Dec
Code	1	2	3		4	5	6	7	8	9		0	N	D

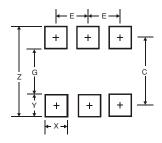


Package Outline Dimensions



	SOT-26						
Dim	Min	Max	Тур				
Α	0.35	0.50	0.38				
В	1.50	1.70	1.60				
С	2.70	3.00	2.80				
D	_		0.95				
Н	2.90	3.10	3.00				
J	0.013	0.10	0.05				
K 1.00 1.30 1.							
L 0.35 0.55 0.40							
М	0.15						
α	0°	8°					
All D	All Dimensions in mm						

Suggested Pad Layout



Dimensions	Value (in mm)
Z	3.20
G	1.60
X	0.55
Υ	0.80
С	2.40
E	0.95

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