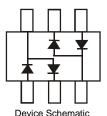
SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

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)



Top View

Maximum Ratings @T_A = 25℃ 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}	350	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0	s I _{FSM}	1.5	Α

Thermal Characteristics

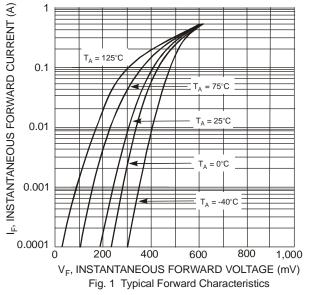
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_{D}	225	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	444	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +125	°C

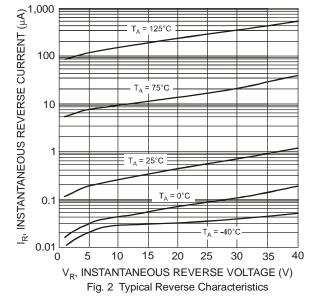
Electrical Characteristics @TA = 25°C unless otherwise specified

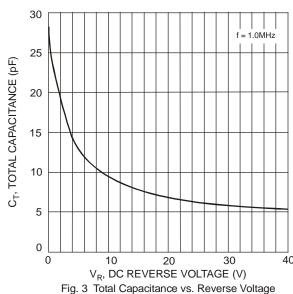
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	$V_{(BR)R}$	40		_	V	$I_R = 100 \mu A$
Forward Voltage Drop	VF	_	_	0.37 0.50 0.60	V	I _F = 20mA I _F = 100mA I _F = 200mA
Reverse Current (Note 2)	I _R	_	_	5.0	μΑ	$V_R = 30V$
Total Capacitance	C _T	_	50	_	pF	$V_R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

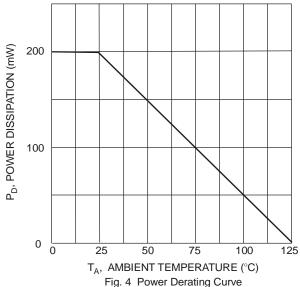
- Notes: 1. Device mounted on FR-5 PCB 1.0 x 0.75 x 0.062 inch pad layout as shown on Diodes Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.
 - Short duration pulse test used to minimize self-heating effect.
 - 3. No purposefully added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

 - bio parameters and the control of the Code 0627 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.







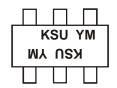


Ordering Information (Notes 5 & 6)

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



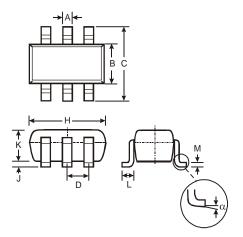
KSU = Product Type Marking Code YM = Date Code Marking Y = Y = (ex: T = 2006)M = Month (ex: 9 = September)

Date Code Key

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	N	Р	R	S	Т	U	V	W	Χ	Υ	Z	Α	В	С
Month	Jan	Feb	Ma	ar .	Apr	May	Jun	Jul	Aug	Se	р	Oct	Nov	Dec
Code	1	2	3	,	4	5	6	7	8	9		0	N	D

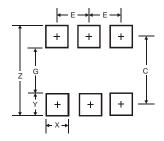
2 of 3

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	1.10						
L	L 0.35 0.55 0.40						
M	0.10	0.20	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
Y	0.80
С	2.40
E	0.95

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