



SD103ASDM

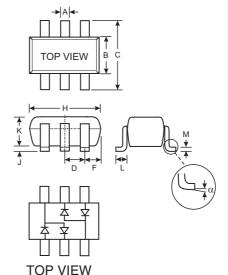
SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

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-020C
- Polarity: See Diagram
- Leads: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Copper leadframe).
- Marking: KSU (See Page 3)
- Weight: 0.016 grams (approximate)



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						
F	_	_	0.55						
Н	2.90	3.10	3.00						
J	0.013	0.10	0.05						
K	1.00	1.30	1.10						
L	0.35	0.55	0.40						
M	0.10	0.20	0.15						
α	0°	8°							
All Dimensions in mm									

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Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value		
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 ≤ 1.0s	I _{FSM}	1.5	Α	
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	

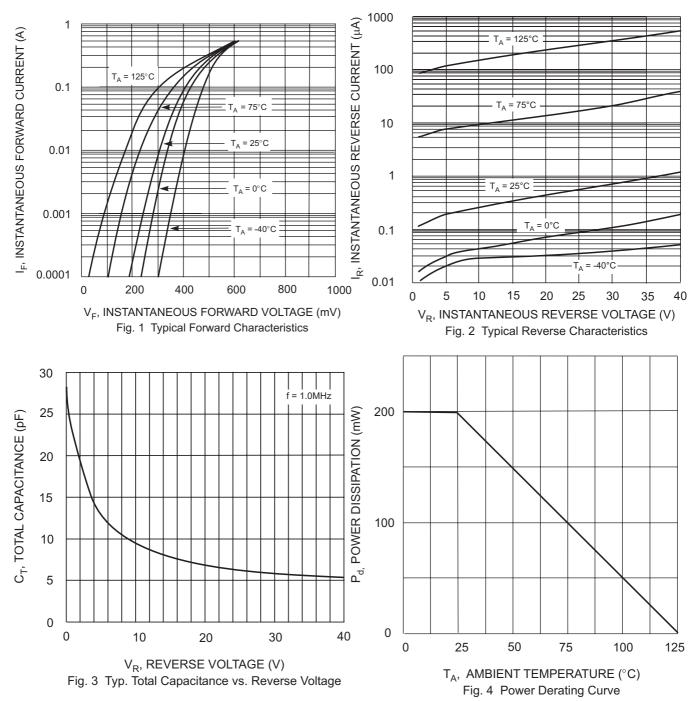
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic		Symbol Min		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)	IR	_	_	5.0	μА	V _R = 30V		
Total Capacitance	Ст	_	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.

- 2. Short duration test pulse 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 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants





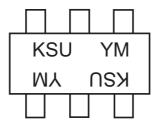


Ordering Information (Note 5 & 6)

Device	Packaging	Shipping		
SD103ASDM-7-F	SOT-26	3000/Tape & Reel		

- Notes: 5. Product manufactured with Date Code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to Date Code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants
 - 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

Year		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Code		N	Р	R	S	Т	U	V	W	Х	Υ	Z
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

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