

SEMICONDUCTOR

400mW SOD-123 SURFACE MOUNT Small Outline Gull Wing Lead Plastic Package Schottky Barrier Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter		Value	Units
PD	Power Dissipation		400	mW
T _{STG}	Storage Temperature Range		-65 to +125	°C
TJ	Operating Junction Temperature		+125	°C
V _{RM}	Repetitive Peak Reverse Voltage	SD103AWG	40	V
		SD103BWG	30	V
		SD103CWG	20	V
I _{F(AV)}	Average Forward Rectified Current	t	200	mA

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Low Forward Voltage Drop
- Gull Wing Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g

Electrical Characteristics T_A = 25°C unless otherwise noted

O week at	Parameter		Test Condition	Limits			
Symbol				Min	Тур	Max	Unit
	Reverse Leakage Current	SD103AWG	V _R =30V				
I _R		SD103BWG	V _R =20V			5	μA
		SD103CWG	V _R =10V				
V _F	Forward Voltage		I _F =20mA I _F =200mA			0.37 0.60	Volts
Ct	Junction Capacitance		V _R =0V f= 1MHz		50		pF

Green Product





SOD-123 Gull Wing Lead

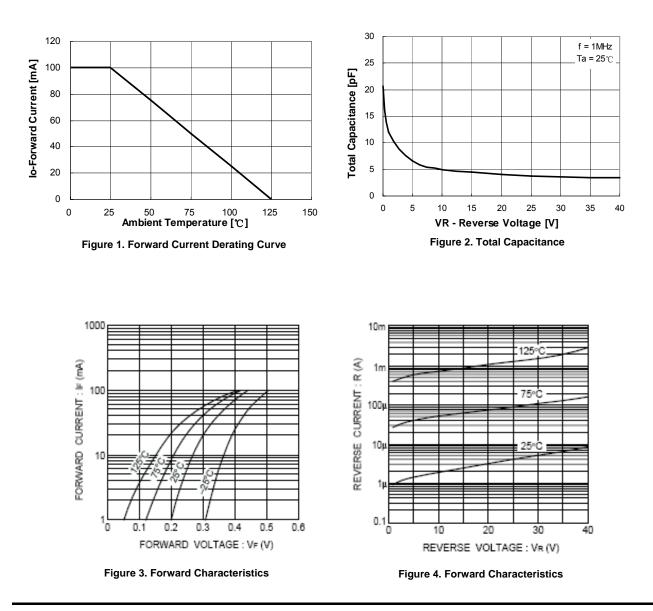
ELECTRICAL SYMBOL

DEVICE MARKING CODES:

Device Type	Device Marking		
SD103AWG	S4		
SD103BWG	S5		
SD103CWG	S6		



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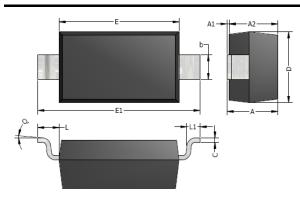


Typical Characteristics

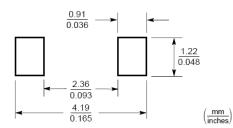


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SOD123 Gull Wing Lead Package Outline



Typical Soldering Pattern:



DIM	MILLIMETERS		INCHES		
DIN	MIN	MAX	MIN	MAX	
А	1.05	1.25	0.041	0.049	
A1	0.00	0.10	0.000	0.004	
A2	1.05	1.15	0.041	0.045	
b	0.50	0.70	0.020	0.028	
С	0.08	0.15	0.003	0.006	
D	1.50	1.70	0.059	0.067	
Е	2.60	2.80	0.102	0.110	
E1	3.55	3.85	0.140	0.152	
L	0.50	0.50 REF.		0.020 REF.	
L1	0.25	0.45	0.010	0.018	
θ	0 °	8 °	0 °	8 °	

Note:

Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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