

SD103AW thru SD103CW

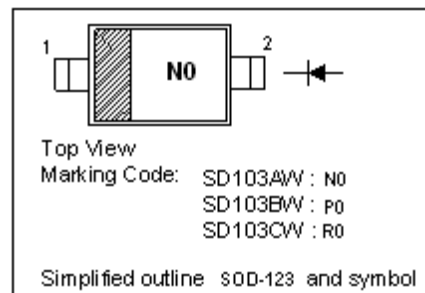
SCHOTTKY DIODE

Features

- For general purpose applications
- The SD103 series is a metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring.
- The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Mechanical Data

Case: SOD-123 plastic case

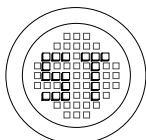
Absolute Maximum Ratings (T_j = 25°)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage SD103AW SD103BW SD103CW	V _{RRM}	40 30 20	V
Single Cycle Surge 10μs Square Wave	I _{FSM}	2	A
Power Dissipation	P _{tot}	400 ⁽¹⁾	mW
Junction Temperature	T _J	125 ⁽¹⁾	°C
Storage Temperature Range	T _s	-55 to +150 ⁽¹⁾	°C
Thermal Resistance Junction to Ambient Air	R _{thJA}	0.3 ⁽¹⁾	K/mW

Note: (1) Valid provided that electrodes are kept at ambient temperature.

Characteristics at T_j = 25°

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Leakage Current SD103AW SD103BW SD103CW	V _R = 30V V _R = 20V V _R = 10V	I _R	-	-	5 5 5	μA
Forward Voltage Drop	I _F = 20mA I _F = 200mA	V _F	-	-	0.37 0.6	V
Junction Capacitance	V _R = 0V f = 1MHz	C _{tot}	-	50	-	pF
Reverse Recovery Time	I _F = I _R = 50mA to 200mA recover to 0.1 I _R	t _{rr}	-	10	-	ns



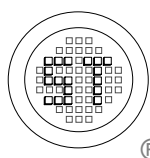
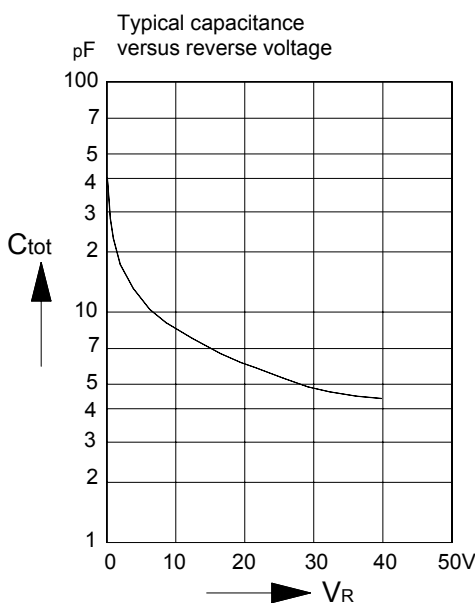
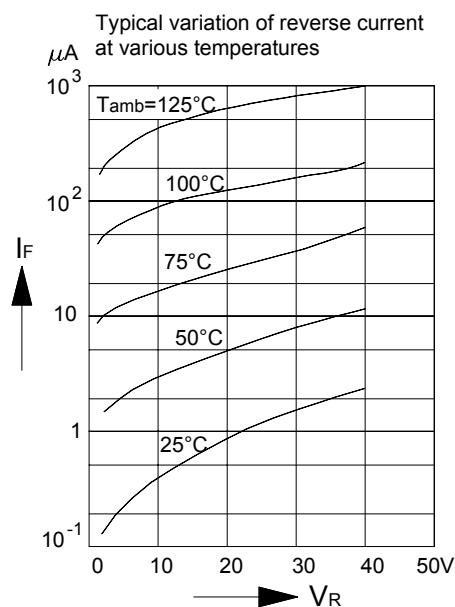
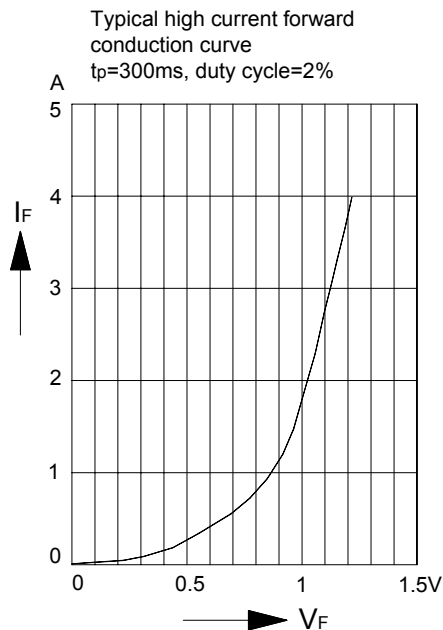
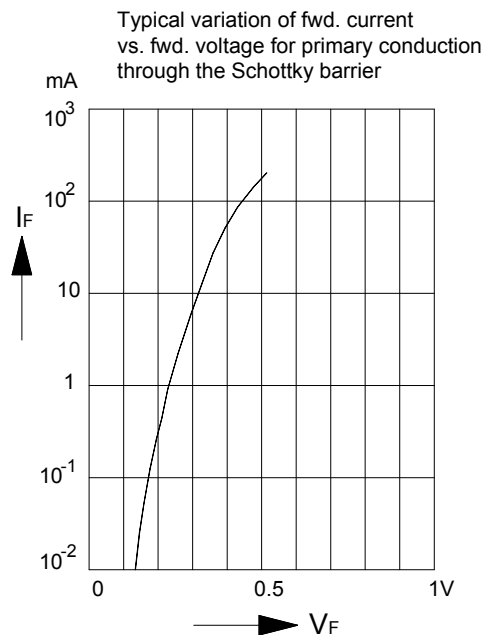
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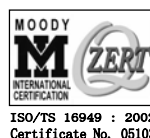
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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



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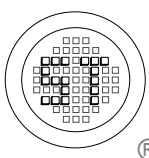
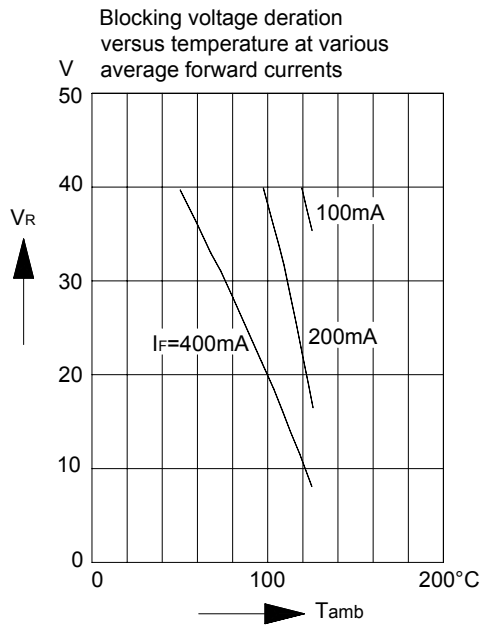
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Dated : 07/04/2005 G

SD103AW thru SD103CW

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Certificate No. 05103



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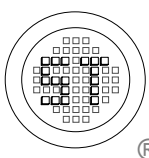
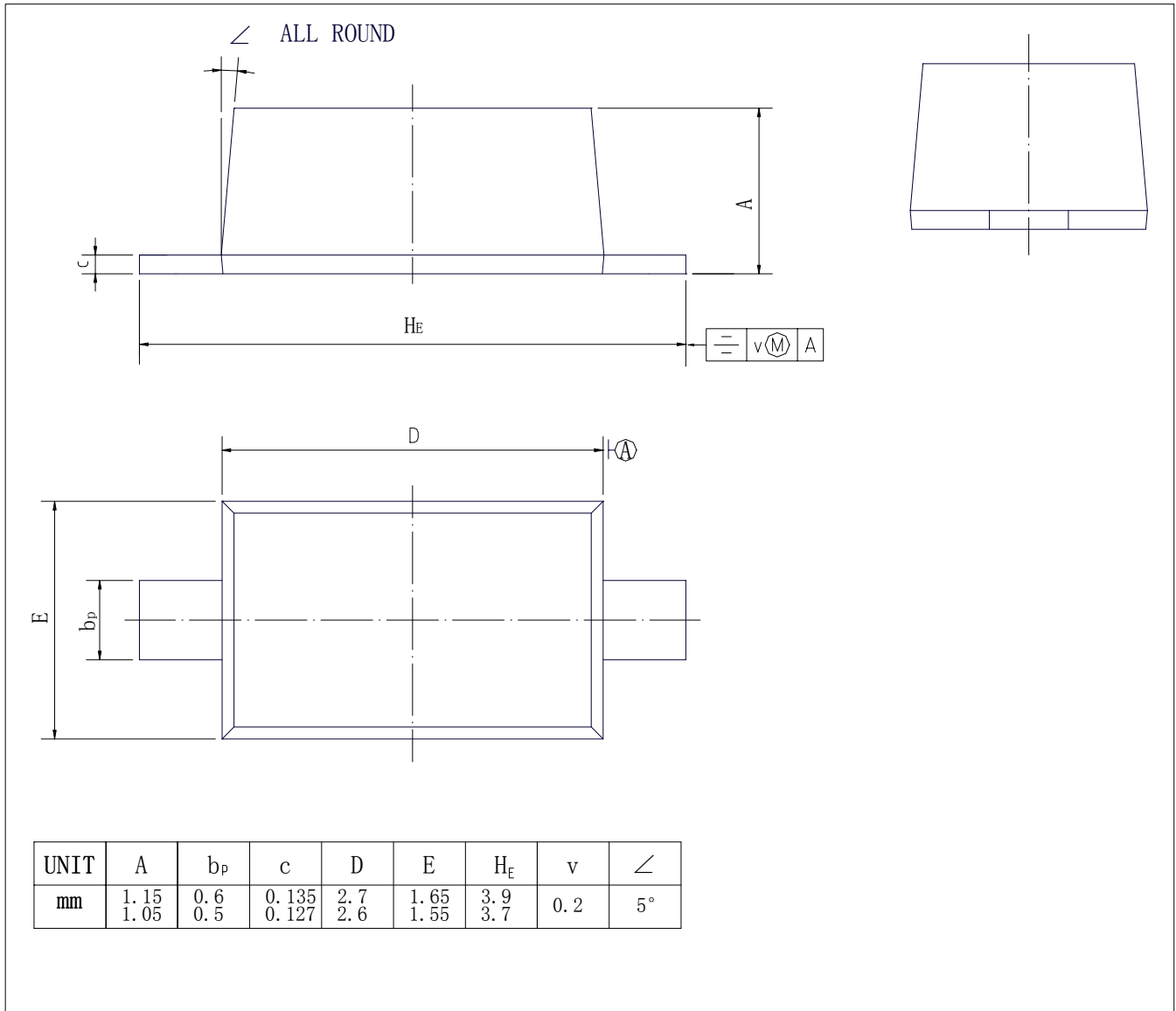
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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