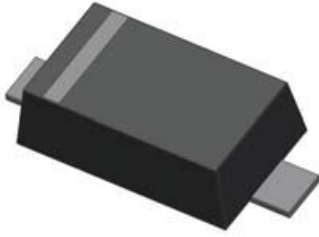


# SD103AWX

## Schottky Barrier Diode



### Features

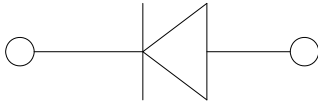
- $V_R$  40V
- $I_F$  350mA

### Typical Applications

- Low Forward Voltage Drop

### Mechanical Data

- **Package:** SOD-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** S4



### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
DC Reverse Voltage	$V_R$	V		40
Average Rectified Forward Current	$I_{FAV}$	mA		350
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	A	8.3ms single half sine-wave	1.5
Power Dissipation	$P_D$	mW		150
Junction Temperature	$T_J$	°C		125
Storage Temperature	$T_{STG}$	°C		-40 to +125

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$I_R=100\mu\text{A}$	40	
Forward Voltage	$V_F$	V	$I_F=20\text{mA}$		0.37
		V	$I_F=200\text{mA}$		0.6
Reverse Leakage Current	$I_R$	$\mu\text{A}$	$V_R=30\text{V}$		5
Junction capacitance	$C_J$	pF	$V_R=0\text{V}$ , $f=1\text{MHz}$		50



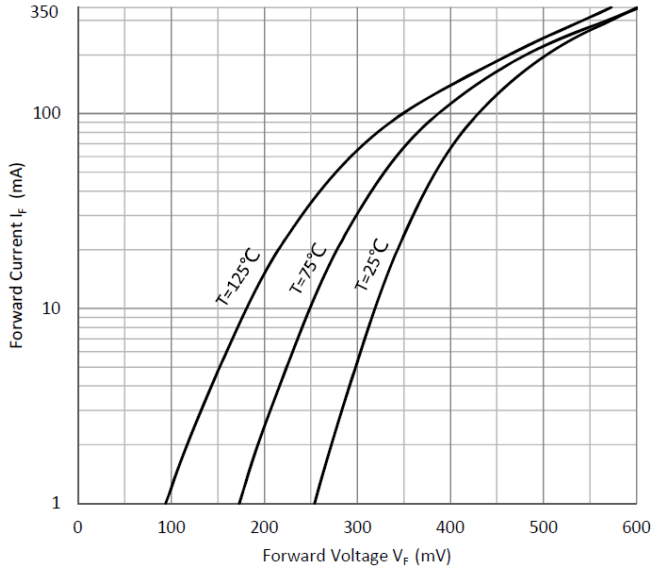
# SD103AWX

## Ordering Information (Example)

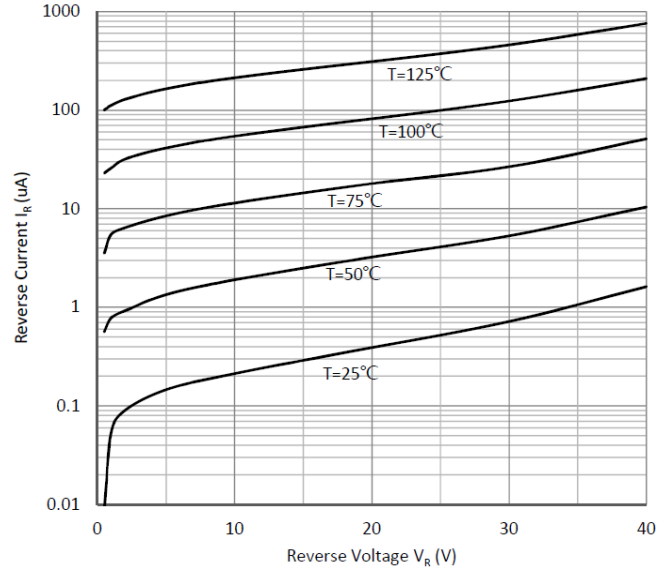
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD103AWX	F2	Approximate 0.0025	8000	80000	320000	7" reel

## Characteristics(Typical)

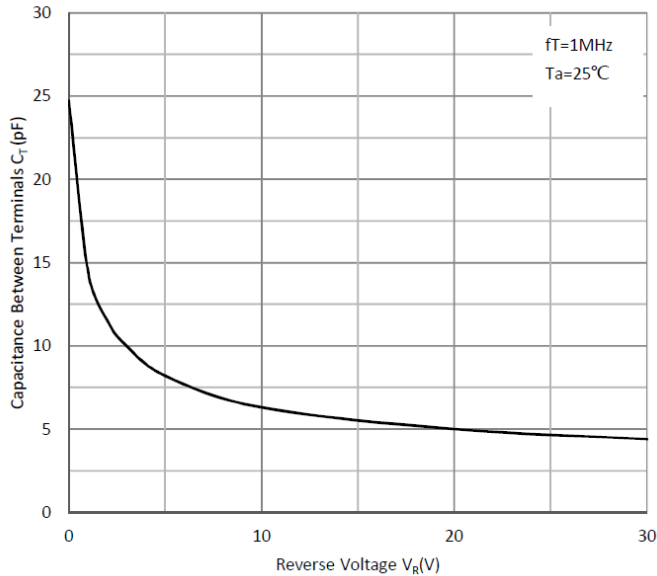
Forward Characteristics



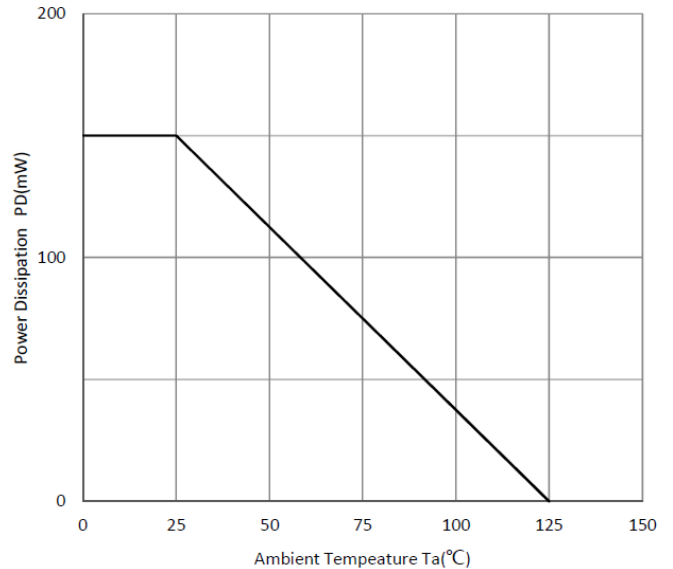
Reverse Characteristics



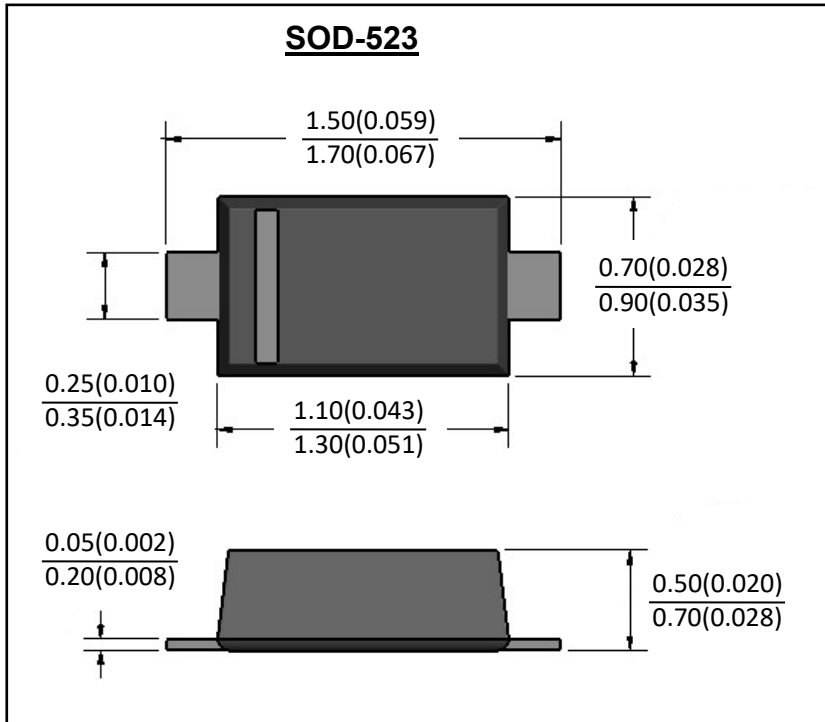
Capacitance Characteristics



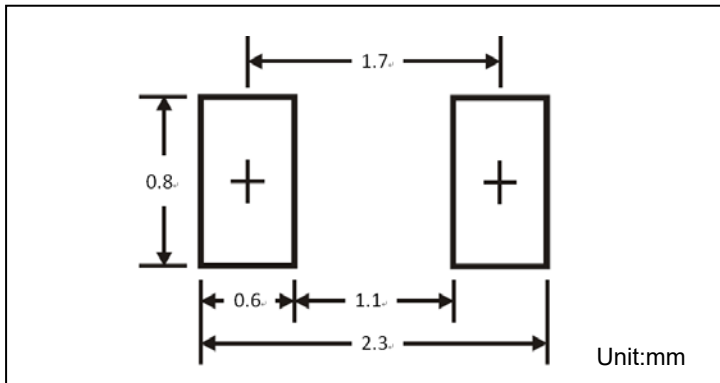
Power Derating Curve



## ■ SOD-523 Package Outline Dimensions



## ■ SOD-523 Soldering Footprint





## SD103AWX

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### Disclaimer

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