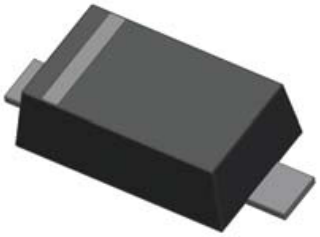
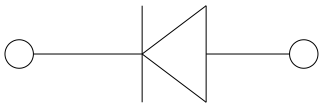
Schottky Barrier Diode





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
Repetitive Peak Forward Current	I_{FRM}	A	tp=1ms，δ=0.25	1
Power Dissipation	P_D	mW		150
Junction Temperature	T_J	℃		125
Storage Temperature	T_{STG}	℃		-40 to +125

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V_R	V	I_R= 100uA	40	
Forward Voltage	V_F	V	I_F=20mA		0.37
		V	I_F=200mA		0.6
Reverse Leakage Current	I_R	uA	V_R=30V		5
Junction capacitance	C_J	pF	V_R=0V, f =1MH$_Z$		50

PREFERED 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)

Fig 1：P_D-Ta Curve

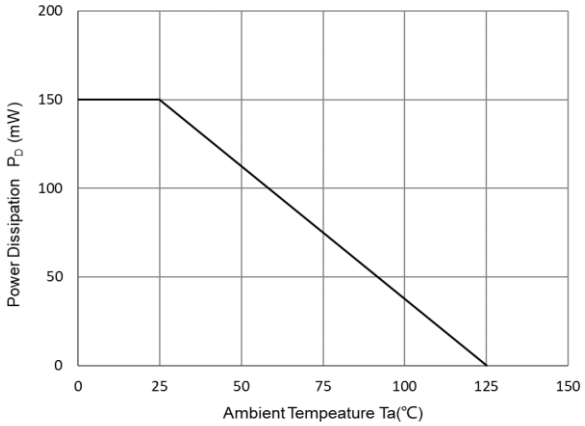


Fig 2：Capacitance Capability

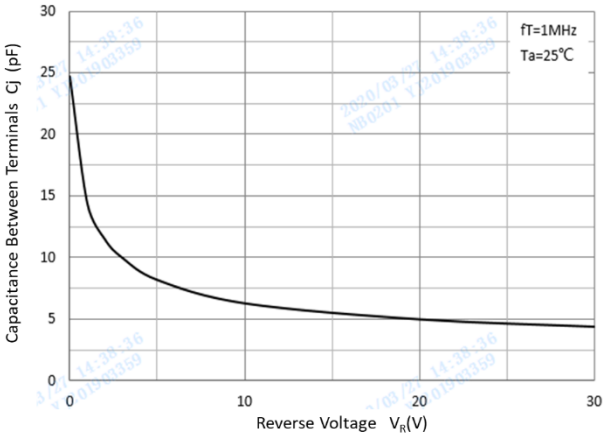


Fig 3：Typical Forward Characteristics

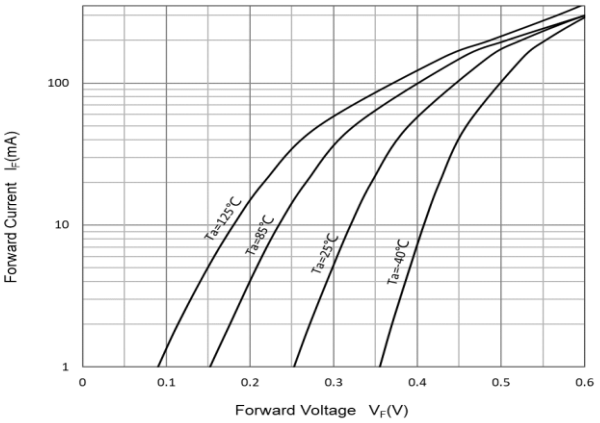
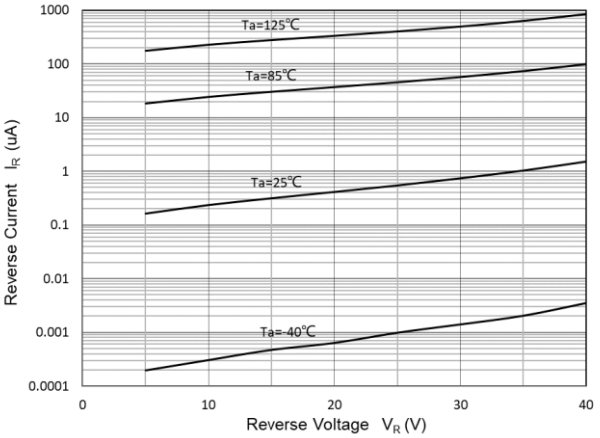
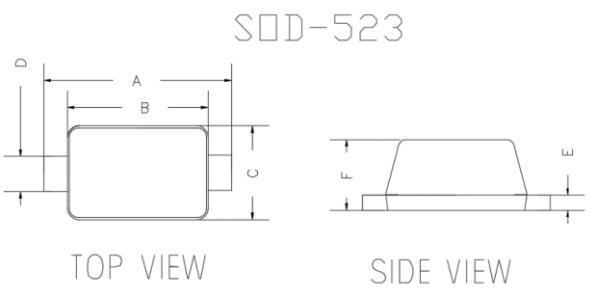


Fig 4：Typical Reverse Characteristics

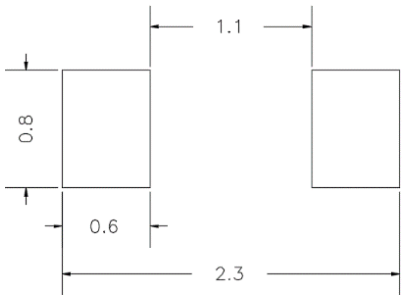




DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

Note:
1. All dimensions are in millimeters (mm) unless otherwise specified.
[所有尺寸均以毫米为单位，除非另有说明]
2. General tolerances: ±0.10mm unless otherwise specified.
[通用公差为±0.10mm，除非另有说明]
3. Dimensions and tolerances per ASME Y14.5M-2018.
[尺寸和公差遵循 ASME Y14.5M-2018 标准]
4.All dimensions shown are exclusive of burrs and gate residues.
Burrs and gate vestiges shall not exceed 0.15 mm in maximum.
[所有尺寸均不包括毛刺和浇口残留。毛刺与浇口残留的尺寸最大不得超过 0.15mm]
5.Dimension b does not include dambar protrusion of max 0.100 mm per side.
[尺寸b不包括单边最大0.100 MM的中筋凸出部分]
6.Dimensions B and C are the overall extreme outer dimensions of the mold compound. These dimensions exclude mold flash, lead flash, protrusions and burrs but include the maximum allowable mold mismatch.
[B和C是塑封体的外部极限尺寸，不包括包封溢料、内引线溢料、凸出部分以及胶体毛刺，但是包含了包封错位的最大尺寸]
7.Formed leads shall be planar with respect to one another within a maximum of 0.076 mm relative to the seating plane.
[成型的管脚应为同一平面，共面性最大为0.1mm]

■ Soldering Footprint



UNIT：mm

SUGGESTED SOLDER PAD LAYOUT

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