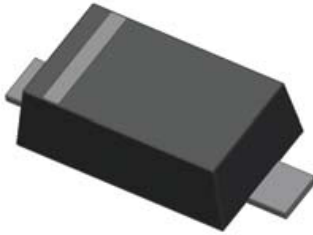
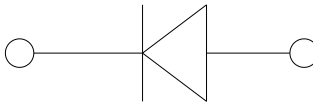


Small Signal Schottky Diode



Features

- V_R 30V
- I_{FM} 30mA



Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** 4B

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Peak reverse voltage	V_{RM}	V		40
Reverse voltage	V_R	V		30
Forward continuous current	I_{FM}	mA	$T_a=25^\circ\text{C}$	30
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	A		0.2
Repetitive Peak Forward Current@tp=1ms, $\delta=0.25$	I_{FRM}	A		0.1
Power dissipation	P_D	mW		150
Maximum junction temperature	T_j	°C		125
Storage temperature range	T_{stg}	°C		-55 to +150
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C/W		667

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Reverse Breakdown Voltage	V_R	V	$I_R=10\mu\text{A}$	30	
Maximum Forward voltage	V_F	V	$I_F=1\text{mA}$		0.37
Maximum Reverse current	I_R	μA	$V_R=30\text{V}$		0.5
Maximum Junction capacitance	C_J	pF	$V_R=0\text{V}, f=1\text{MHz}$		5



RB751S-40

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB751S-40	F2	Approximate 0.002	8000	80000	320000	7" reel

■ Characteristics (Typical)

Fig 1: Capacitance Capability

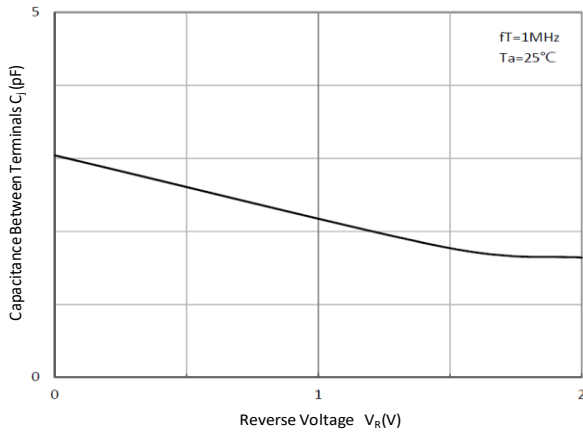


Fig 2: Typical Forward Characteristics

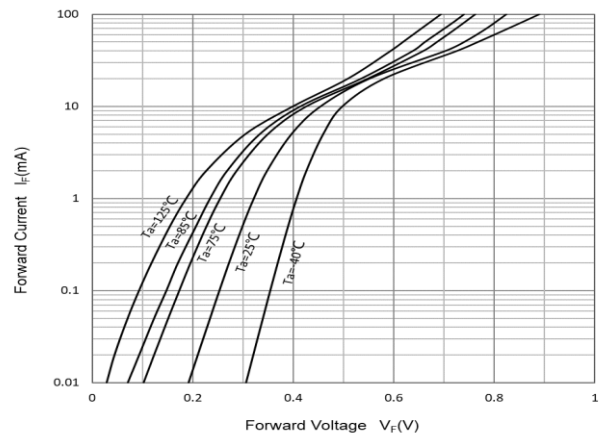
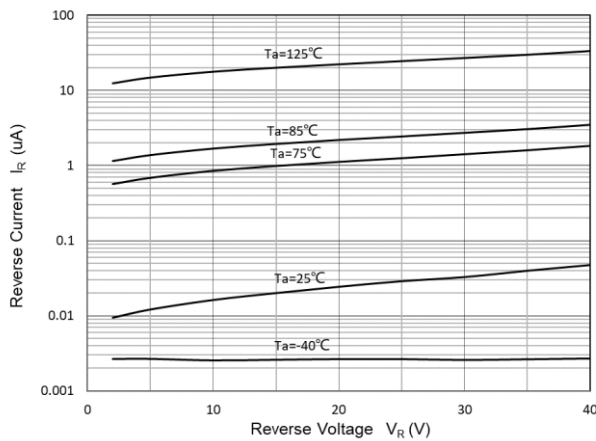
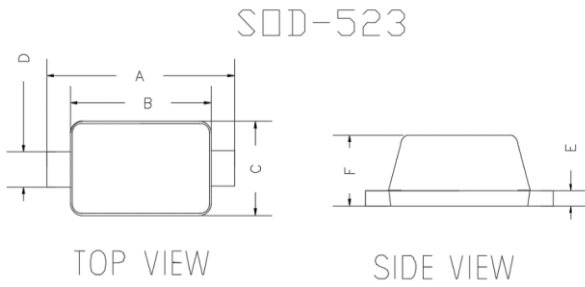


Fig 3: Typical Reverse Characteristics



■ Outline Dimensions

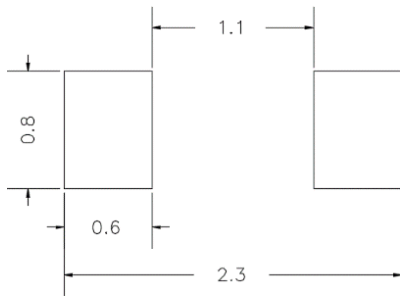


DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

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.
Burr 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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