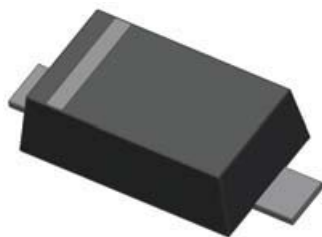


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Schottky Barrier Diode



Features

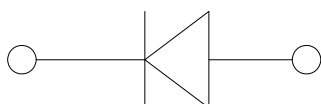
- V_R 30V
- I_F 200mA

Typical Applications

- Low Forward Voltage Drop

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** 5B



■Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P_D	mW		200
Storage Temperature	T_{STG}	°C		-55 to +125
Junction Temperature	T_J	°C		125
DC Reverse Voltage	V_R	V		30
Average Rectified Forward Current	I_{FAV}	mA		200

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

Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=100\mu\text{A}$	30	
Reverse Leakage Current	I_R	μA	$V_R=25\text{V}$		2
Forward Voltage	V_F	V	$I_F=0.1\text{mA}$		0.24
			$I_F=1.0\text{mA}$		0.32
			$I_F=10\text{mA}$		0.40
			$I_F=30\text{mA}$		0.50
			$I_F=100\text{mA}$		1.00
Reverse Recovery Time	TRR	ns	$I_F=I_R=10\text{mA}, R_L=100\Omega, I_{RR}=1\text{mA}$		5
Capacitance	C	pF	$V_R=1\text{V}, f=1\text{MHz}$		10

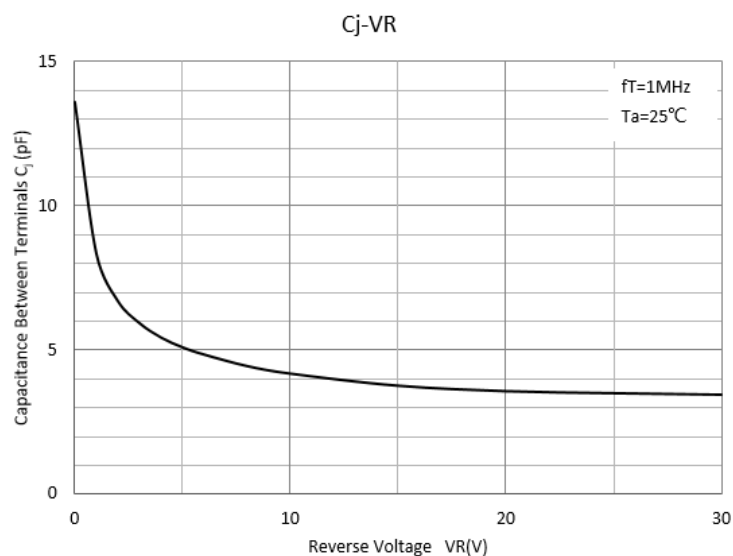
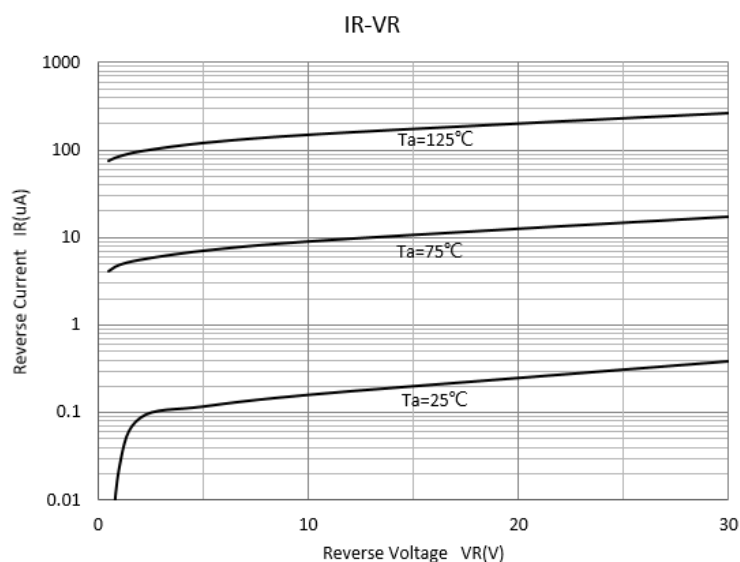
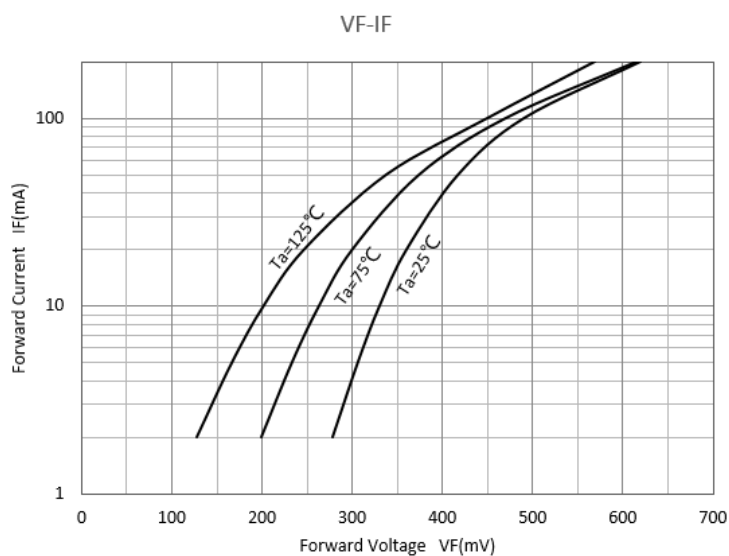


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■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT54XV2	F2	Approximate 0.0025	8000	80000	320000	7" reel

■ Characteristics(Typical)

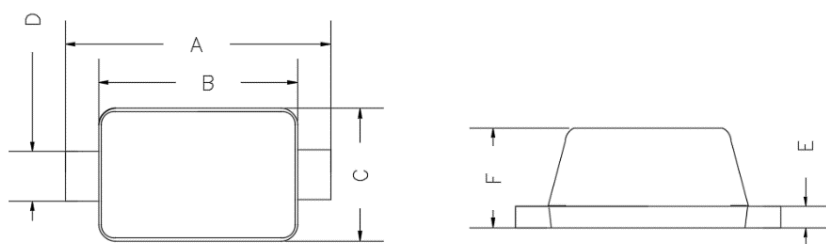




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■ Outline Dimensions

SOD-523

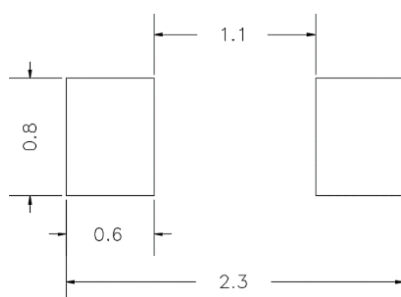


TOP VIEW

SIDE VIEW

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

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



BAT54XV2

Disclaimer

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