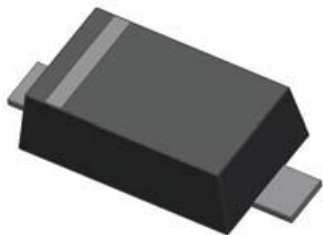


RB521S-30

Schottky Barrier Diode



Features

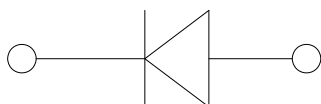
- V_R 30V
- I_F 200mA

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:** C



■Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P_D	mW		150
Storage Temperature	T_{STG}	°C		-40 to +125
Junction Temperature	T_J	°C		-40 to +125
DC Reverse Voltage	V_R	V		30
Average Rectified Forward Current	I_{FAV}	mA		200
Non-repetitive Peak Forward Surge Current	I_{FSM}	A	8.3ms single half sine-wave	1.0

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

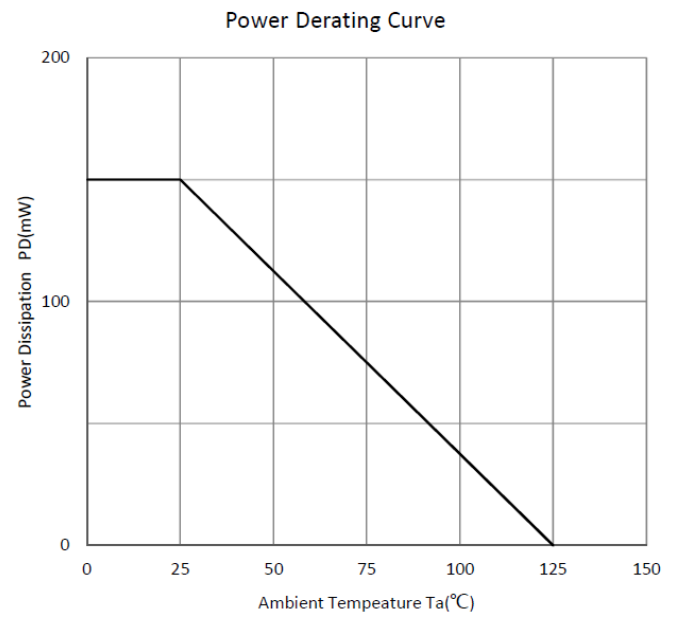
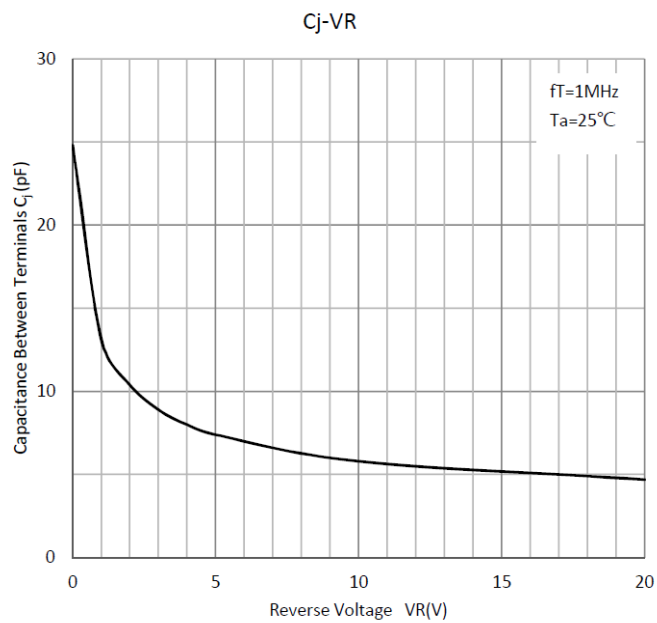
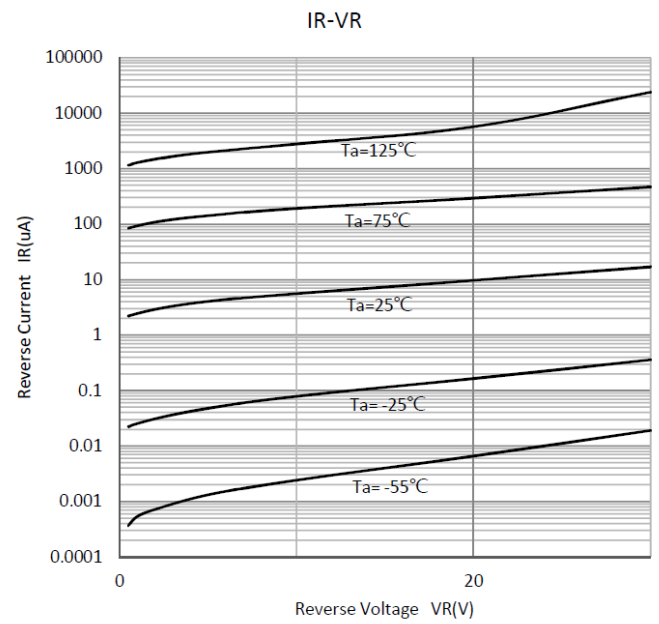
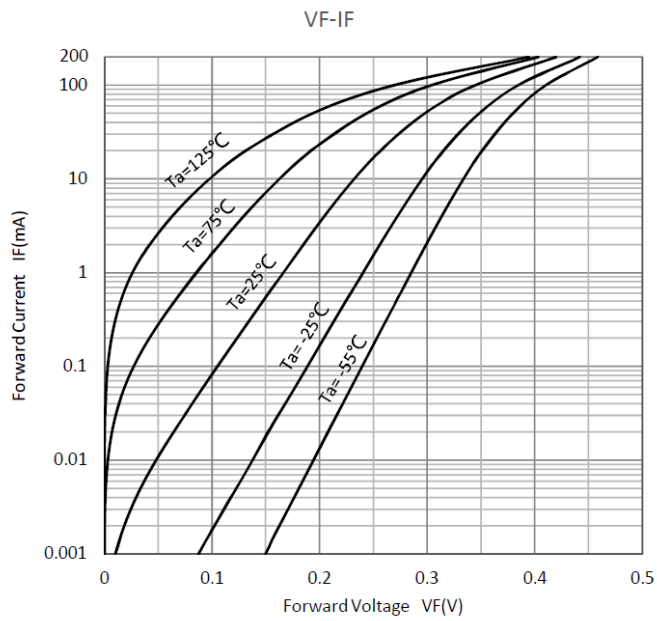
Item	Symbol	Unit	Conditions	Min	Typ	Max
Breakdown Voltage	V_R	V	$I_R=500\mu\text{A}$	30		
Forward Voltage	V_F	V	$I_F=10\text{mA}$			0.35
			$I_F=200\text{mA}$		0.43	0.5
Reverse Leakage Current	I_R	μA	$V_R=10\text{V}$			30
Junction Capacitance	C_J	pF	$F=1.0\text{MHz}$, $V_R=1\text{V}$		10	20

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB521S-30	F2	Approximate 0.0025	8000	80000	320000	7" reel
RB521S-30	F3	Approximate 0.002	3000	30000	120000	7" reel



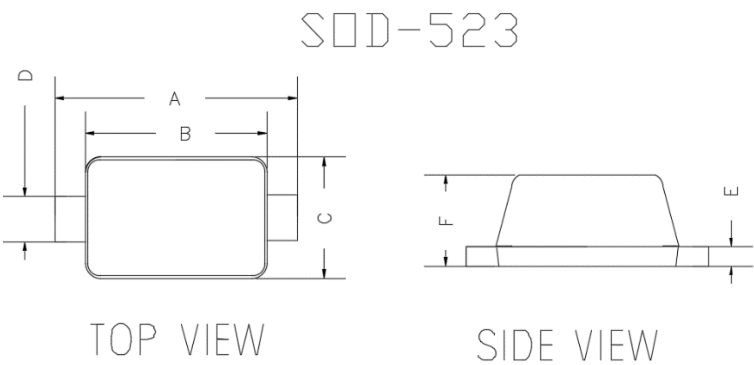
■Characteristics(Typical)





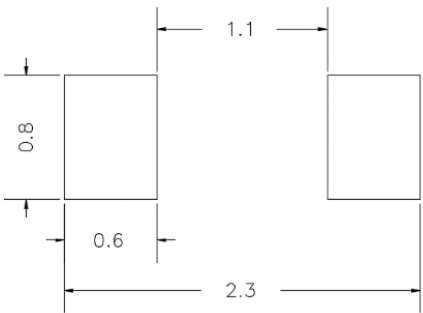
RB521S-30

■ SOD-523 Package Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MM	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

■ SOD-523 Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



RB521S-30

Disclaimer

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