

## RB521S-30

### Schottky Barrier Diode



#### Features

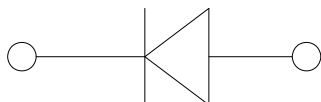
- $V_R$  30V
- $I_F$  200mA

#### 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

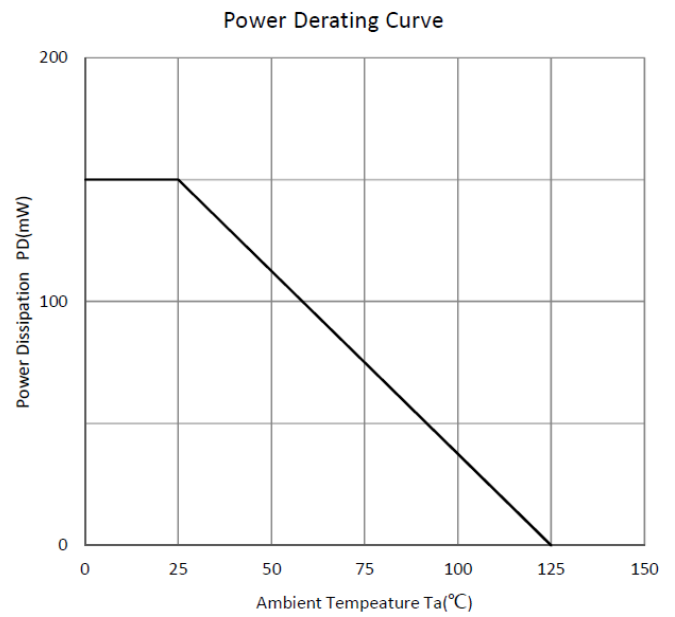
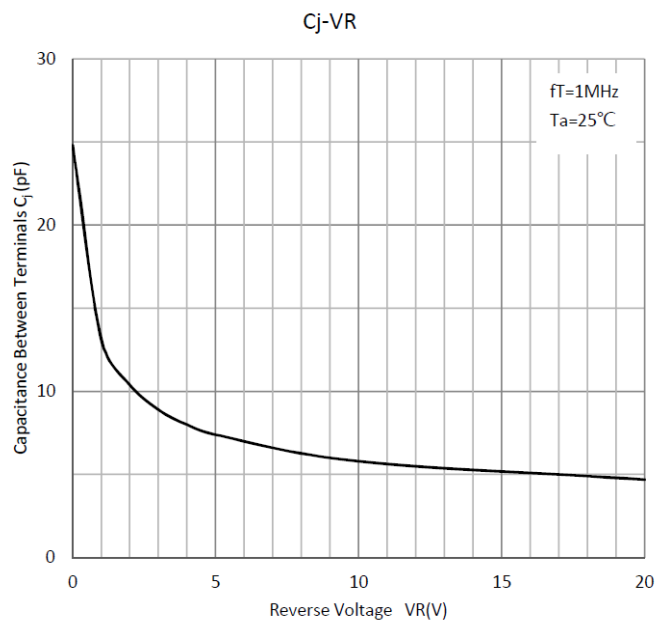
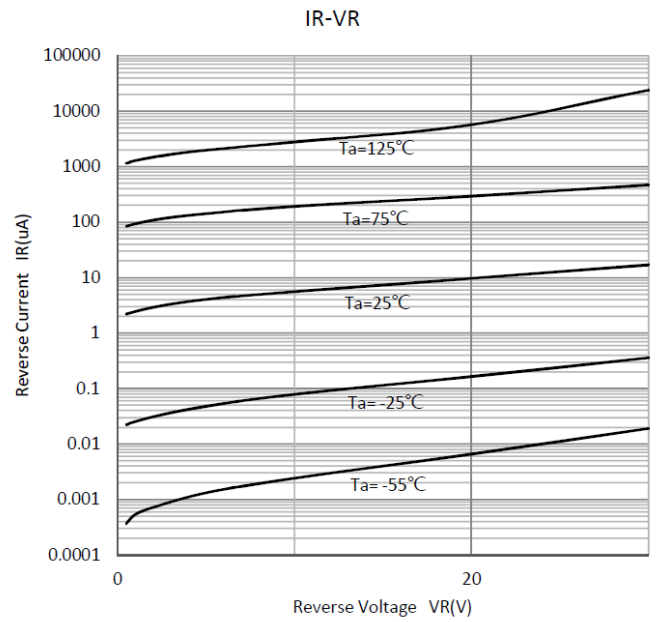
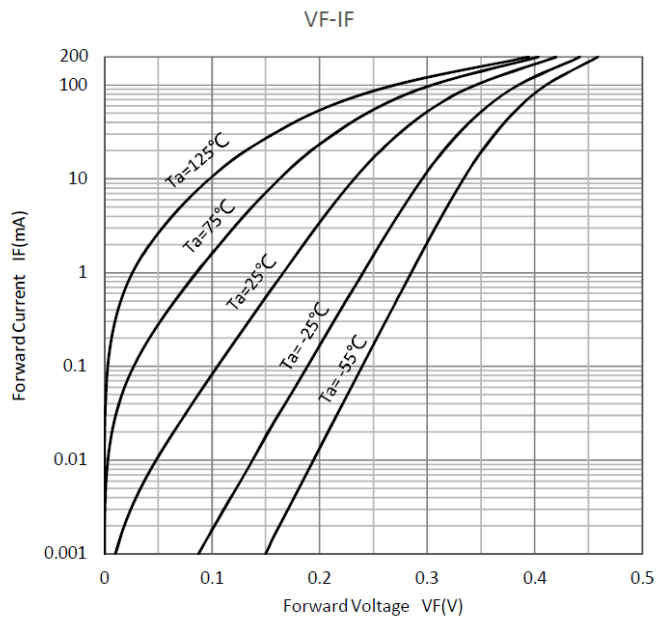
#### ■Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

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	$I_R$	$\mu\text{A}$	$V_R=10\text{V}$			30
Junction Capacitance	$C_J$	pF	$F=1.0\text{MHz}$ , $V_R=1\text{V}$		10	20

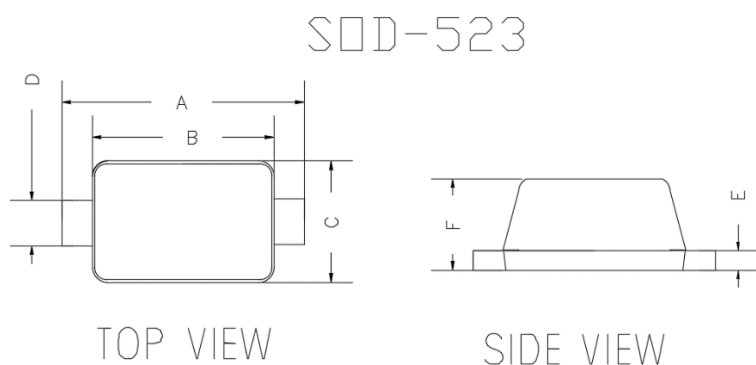
#### ■Ordering Information (Example)

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

■Characteristics(Typical)

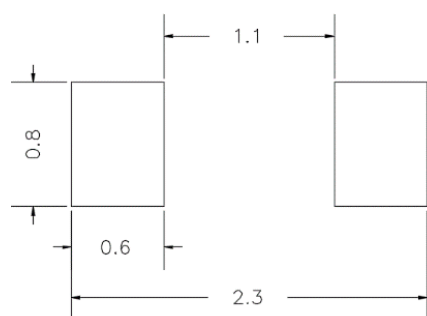


## ■ SOD-523 Package Outline Dimensions



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

## ■ SOD-523 Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT

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