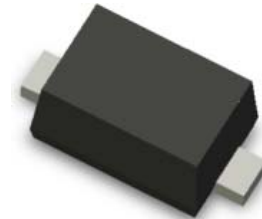


RB521S30

Schottky Barrier Diodes

- Low Forward Voltage Drop
- Flat Lead, Surface Mount Device at 0.60mm Height
- Extremely Small Outline Plastic Package SOD523F
- Moisture Level Sensitivity 1
- Pb-free Version and RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Green Mold Compound



SOD-523F
Band Indicates Cathode*
Marking: 2B(521S)

Absolute Maximum Ratings* $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
T_J	Operating Junction Temperature Range	-55 to +125	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +125	$^\circ\text{C}$

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

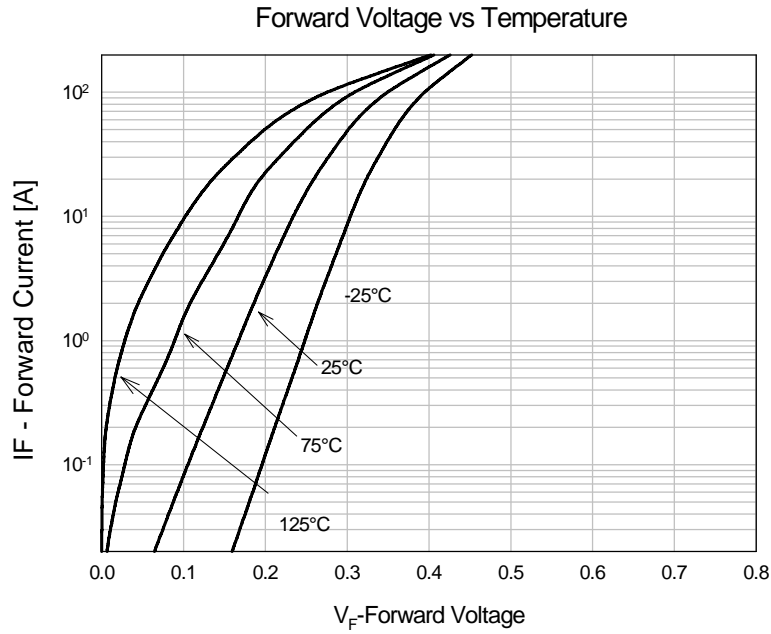
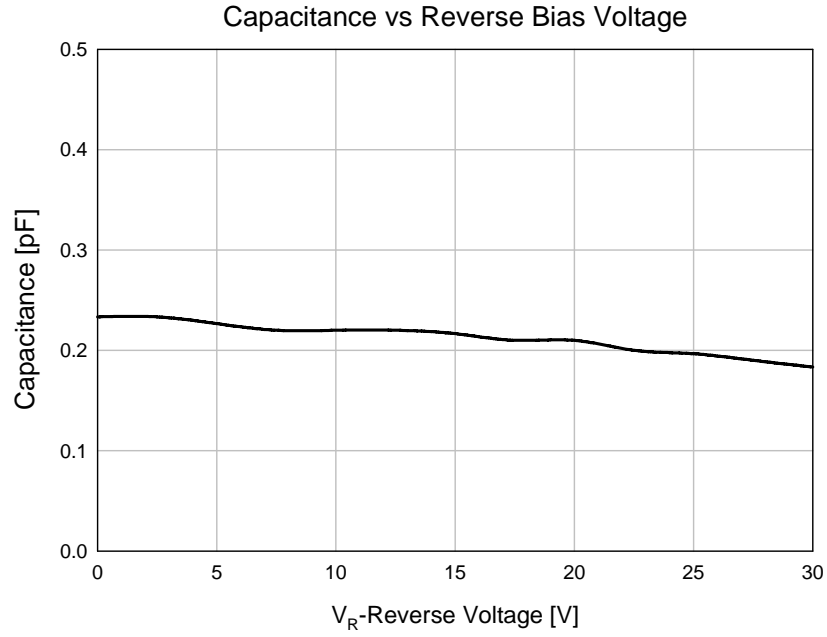
Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	500	$^\circ\text{C}/\text{W}$
P_D	Total Device Dissipation($T_C=25^\circ\text{C}$)	200	mW

*Device mounted on FR-4 PCB minimum land pad.

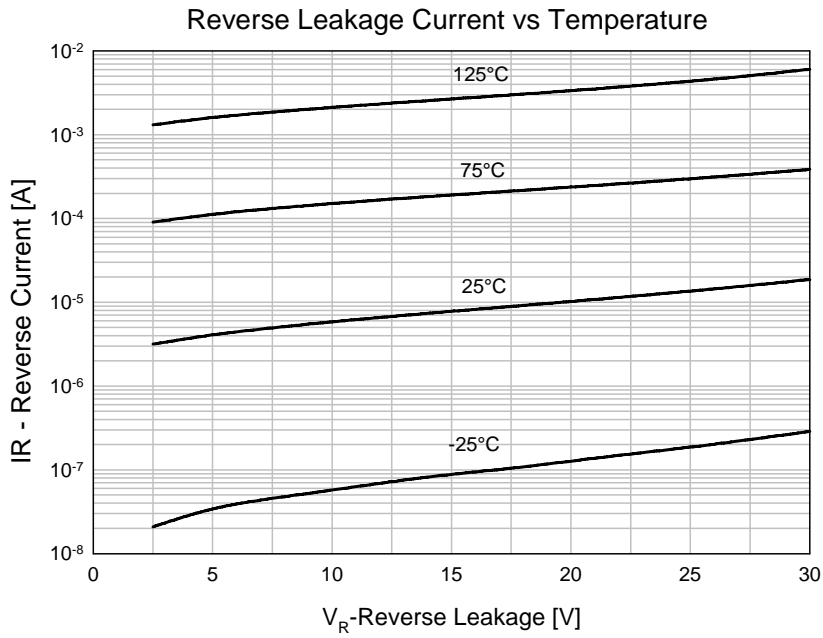
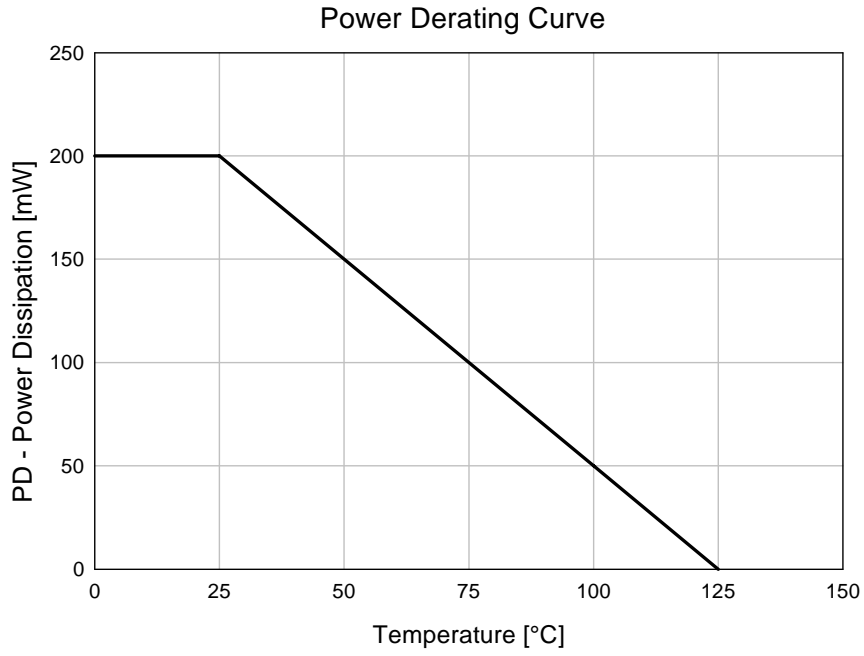
Electrical Characteristics* $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
BV_R	Breakdown Voltage	$I_R = 500 \mu\text{A}$	30			V
I_R	Reverse Current	$V_R = 10 \text{ V}$			30	μA
V_F	Forward Voltage	$I_F = 100 \text{ mA}$			0.5	V

Typical Performance Characteristics

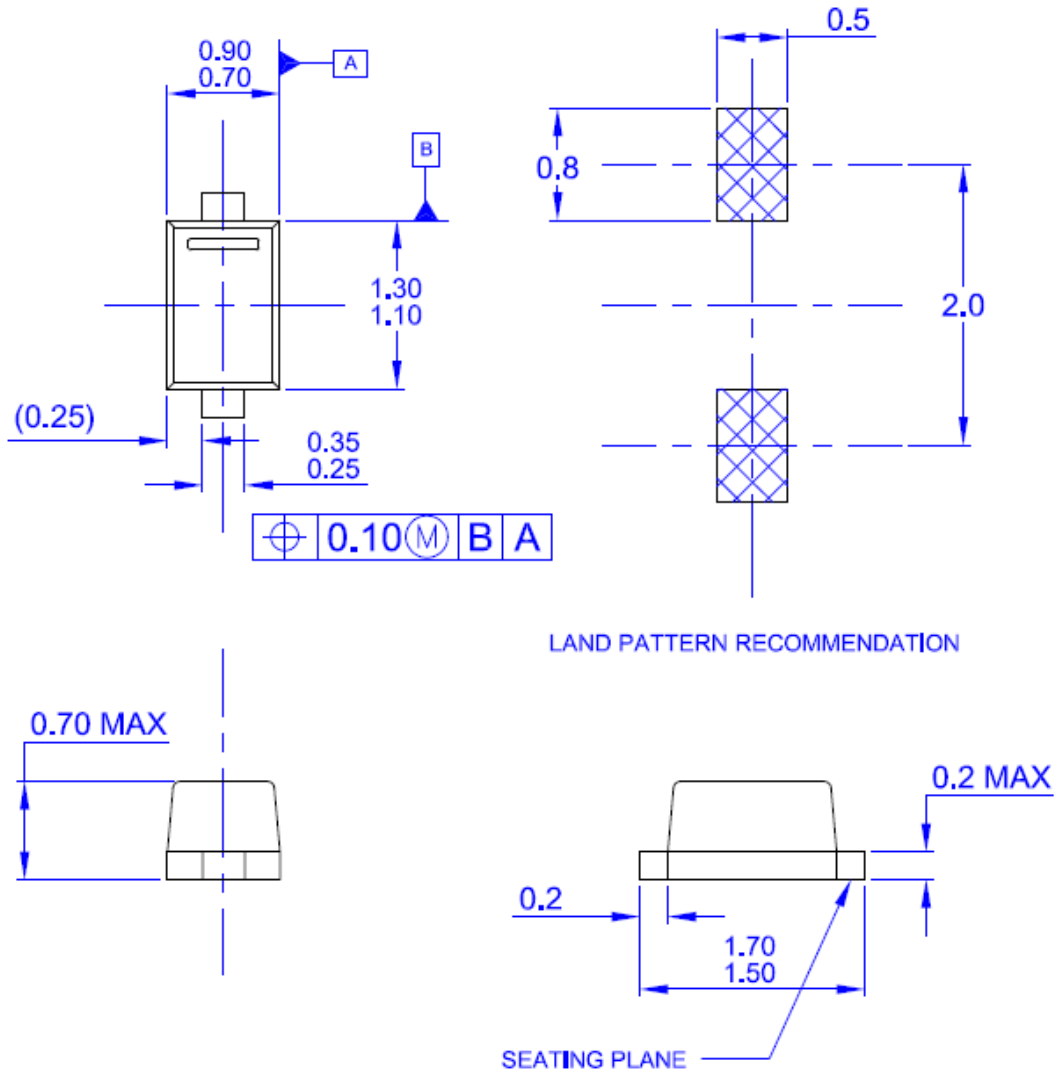


Typical Performance Characteristics



Package Dimension

SOD-523F




NOTES; UNLESS OTHERWISE SPECIFIED

- A) PACKAGE REFERENCE; THIS PACKAGE OUTLINE CONFORMS TO JEITA SC-79.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DRAWING CONFORMS TO ASME Y14.5M - 1994
- D) DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- E) LANDPATTERN RECOMMENDATION IS BASED ON IPC7351A STANDARD SOD1609X65M.
- F) DRAWING NUMBER AND REVISION;MKT-SOD523F1rev1



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Rev. I30