



200mA Plastic-Encapsulate Schottky Barrier Diode - 30V

PRIMARY CHARACTERISTICS

P_D	150mW
V_R	30V
I_O	200mA
V_F	0.5V
$T_{J,Max}$	125°C

FEATURES

- Small surface mounting type
- Low I_R
- High reliability
- Moisture Sensitivity Level 1

SOD-523

PACKAGE

Marking : C/5M



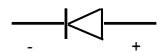
or



or



1.Band:Cathode
2.C or 5M:Device Code --fixed
3.K:Data Code --Change in month based on whether the year is odd or even



MECHANICAL DATA

- Case : Molded plastic,SOD-523
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

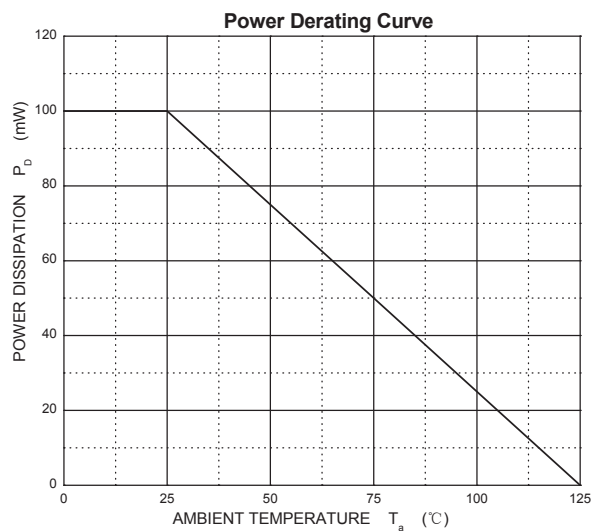
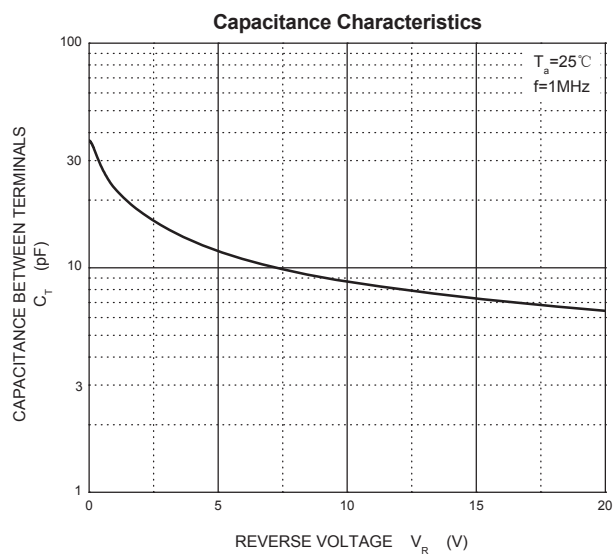
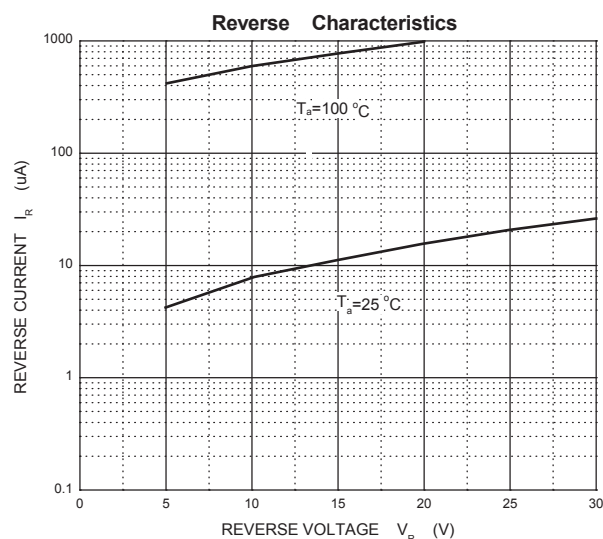
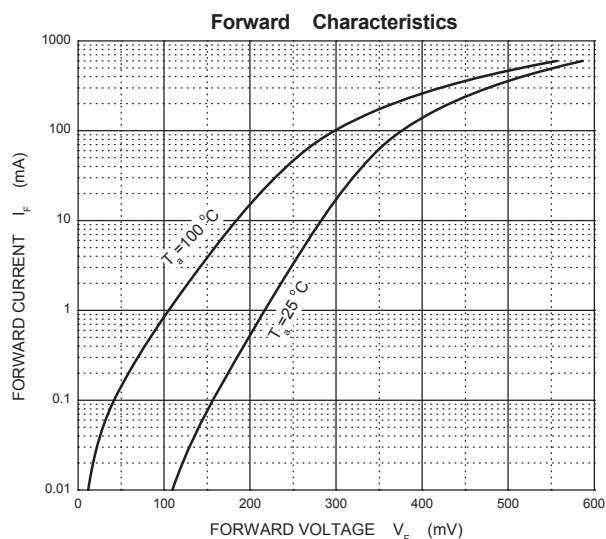
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	200	mA
Peak forward surge current	I_{FSM}	1	A
Power dissipation	P_D	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	°C/W
Operating temperature	T_j	-55~+125	°C
Storage temperature	T_{stg}	-55~+150	°C

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.5	V	$I_F=200mA$
Reverse current	I_R			30	μA	$V_R=10V$



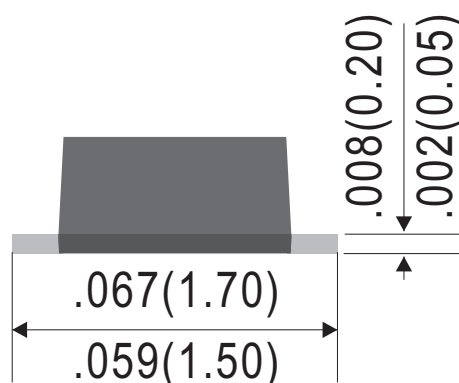
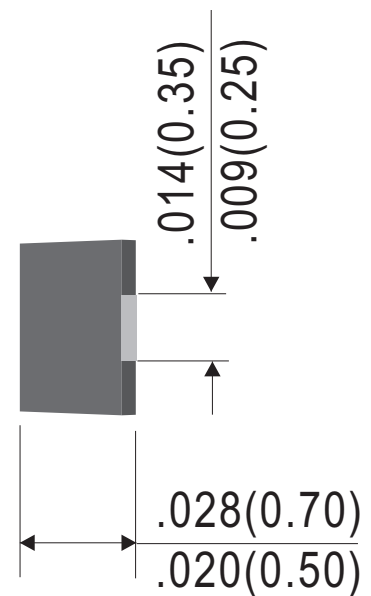
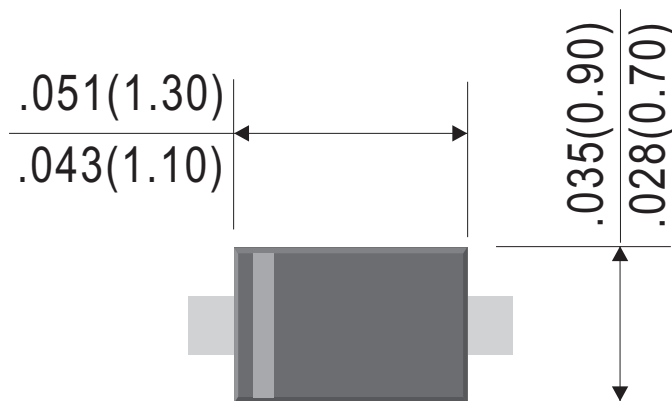
Typical Characteristics





Outline Drawing

SOD-523



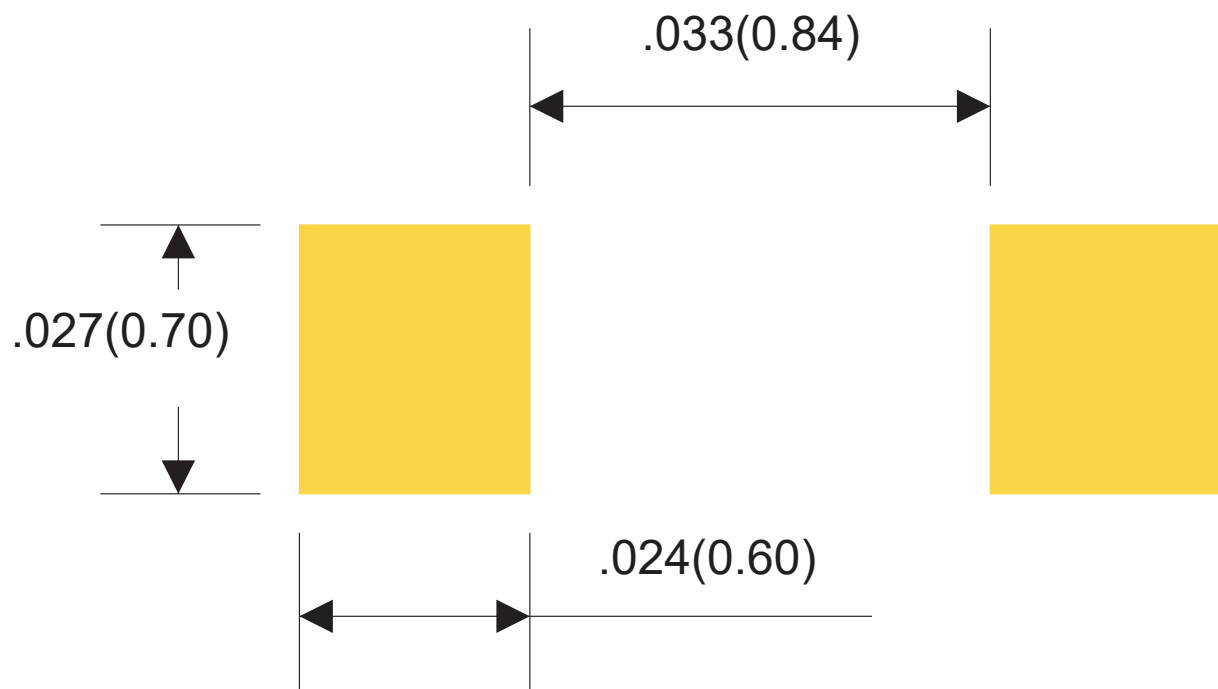
Dimensions in inches and (millimeters)

Rev.C



Suggested Soldering Pad Layout

SOD-523



Dimensions in inches and (millimeters)

RevA



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
SCS521S -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	C or 5M	Tape&Reel: 5 Kpcs/Reel
SCS521S -T2 ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	C or 5M	Tape&Reel: 8 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Packing code suffix "G" for RoHS product : Packing code Suffix "H" for halogen free product. All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

(3) WS : Willas brand abbreviation, Label Type does not display.

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device.

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