

● **Applications**

Low current rectification

● **Features**

Extremely small surface mounting type. (SOD-923)

Low V_F

High reliability.

We declare that the material of product compliance with RoHS requirements.

Pb-Free package is available

RoHS product for packing code suffix "G"

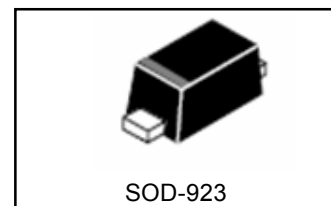
Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1

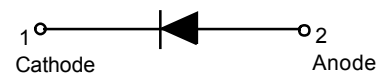
Polarity: Color band denotes cathode end

● **Construction**

Silicon epitaxial planar



SOD-923



DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
SCS521CS-30T5	F	8000/Tape&Reel

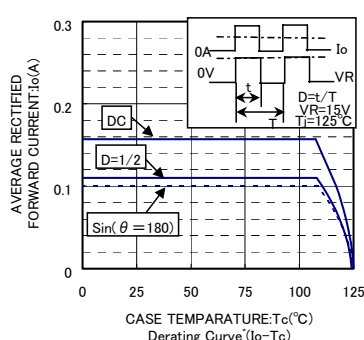
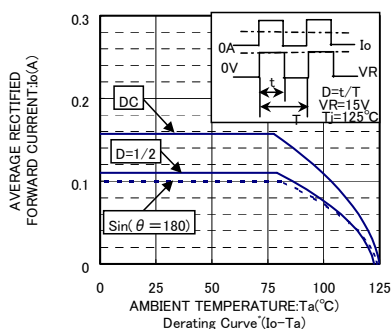
● **Absolute maximum ratings** ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	100	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	500	mA
Junction temperature	T_j	125	$^\circ\text{C}$
Operating/Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

● **Electrical characteristic** ($T_a=25^\circ\text{C}$)

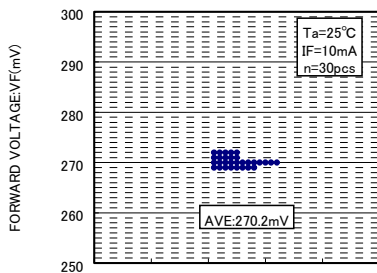
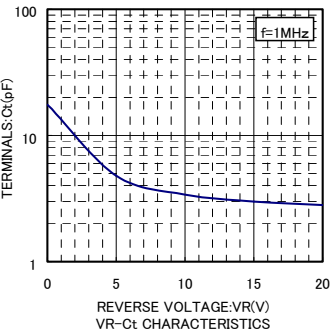
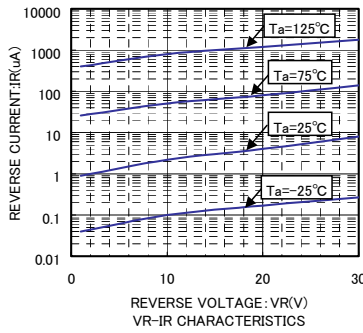
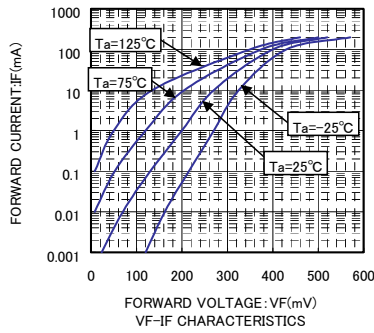
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.35	V	$I_F=10\text{mA}$
Forward voltage	V_F	-	-	0.4	V	$I_F=20\text{mA}$
Reverse current	I_R	-	-	10	μA	$V_R=10\text{V}$

Electrical characteristic curves ($T_a=25^\circ\text{C}$)

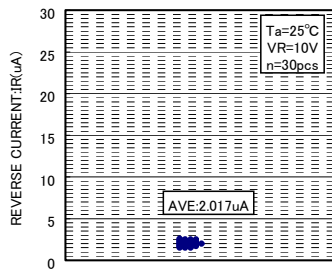




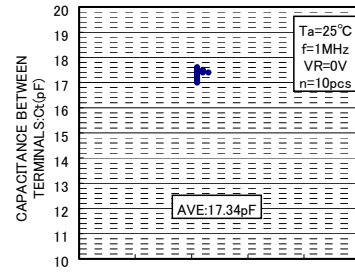
●Electrical characteristic curves



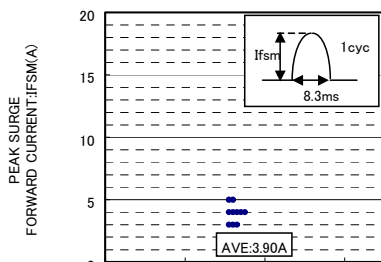
VF DISPERSION MAP



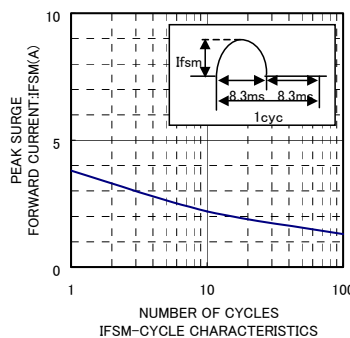
IR DISPERSION MAP



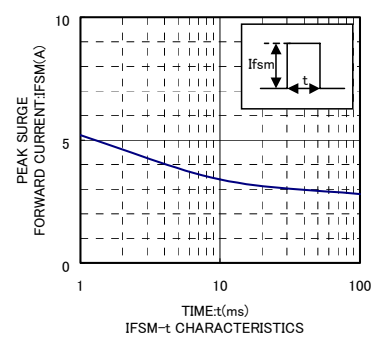
Ct DISPERSION MAP



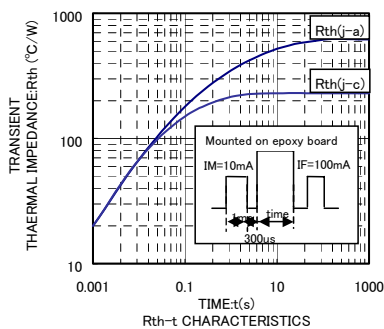
IFSM DISERSION MAP



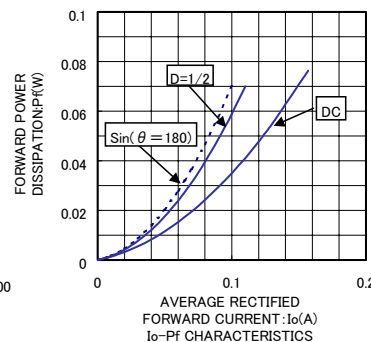
IFSM-CYCLE CHARACTERISTICS



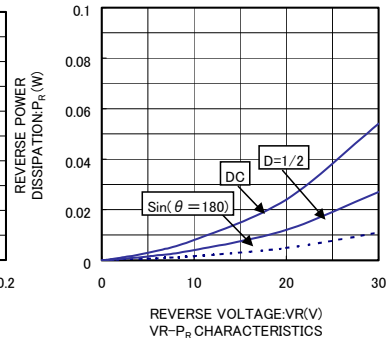
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-PF CHARACTERISTICS



VR-Pn CHARACTERISTICS



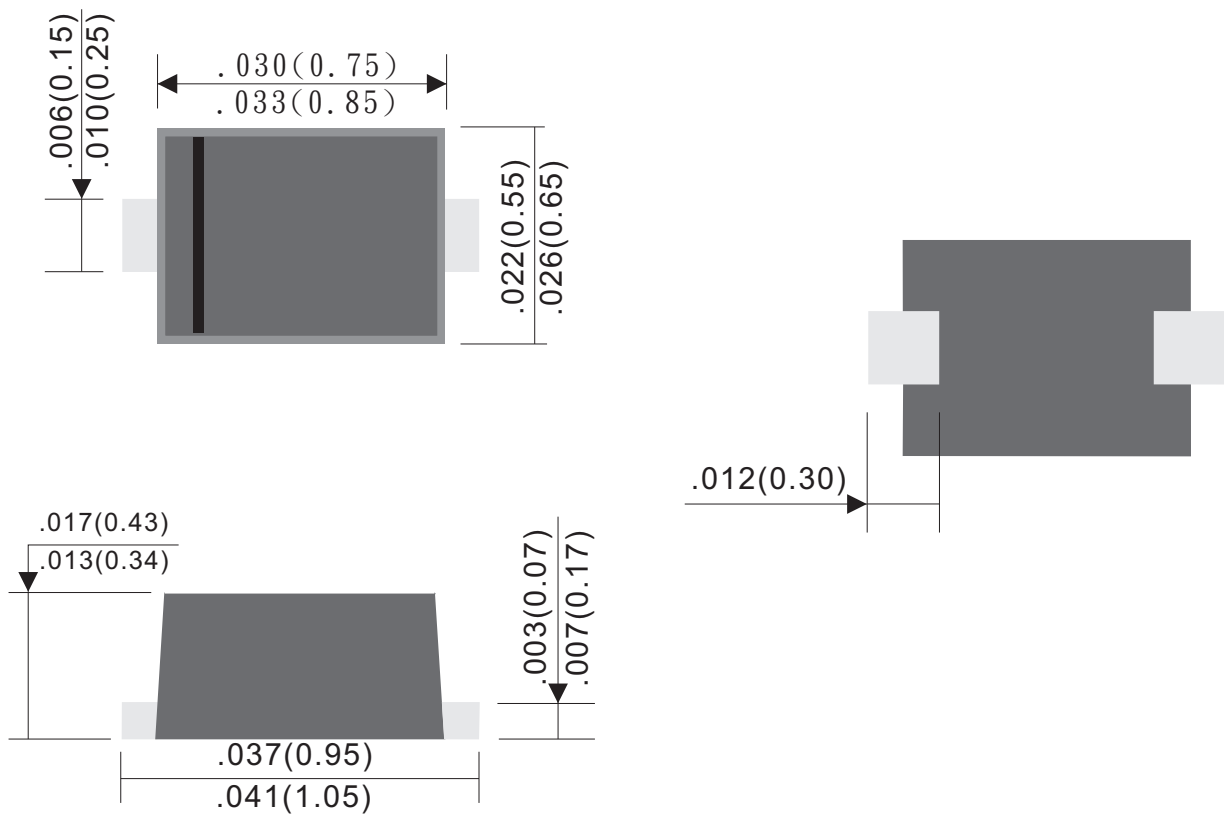
WILLAS



100mA Surface Mount Schottky Barrier Rectifiers - 30V
SOD-923 Package

SCS521CS-30T5

SOD-923



Dimensions in inches and (millimeters)



Ordering Information:

Device PN	Packing
SCS521CS-30T5 G ⁽¹⁾ -WS	Tape&Reel: 8 Kpcs/Reel

Note: (1) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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