

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

**SCS520CS-30T5**

**●Applications**

Low current rectification

**●Features**

Extremely small surface mounting type. (SOD-923)

Low  $I_R$ .

High reliability.

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

**Pb-Free package is available**

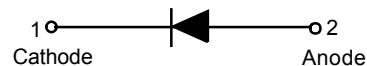
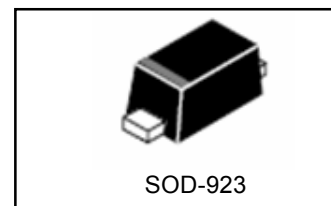
RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1

**●Construction**

Silicon epitaxial planar



Polarity: Color band denotes cathode end

**Device Marking And Ordering Information**

Device	Marking	Shipping
SCS520CS-30T5	E	8000/Tape&Reel

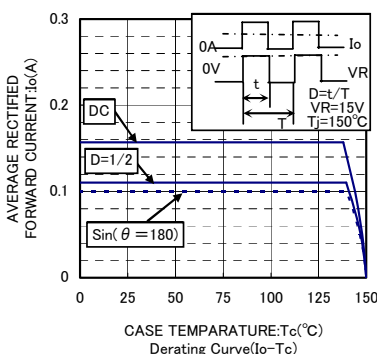
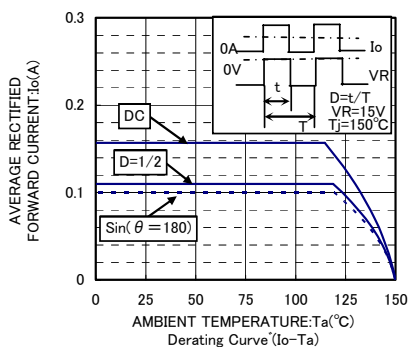
**Maximum Ratings ( $T_A = 25^\circ\text{C}$ )**

Parameter	Symbol	Limits	Unit
DC reverse voltage	$V_R$	30	V
Mean rectifying current	$I_o$	100	mA
Peak forward surge current	$I_{FSM}$	500	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Operating/Storage temperature	$T_{stg}$	-40~+125	$^\circ\text{C}$

**Electrical Characteristics ( $T_A = 25^\circ\text{C}$ )**

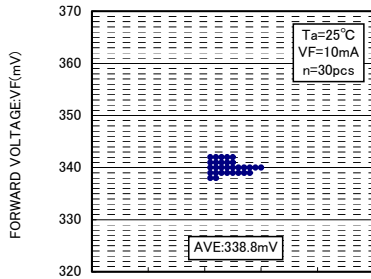
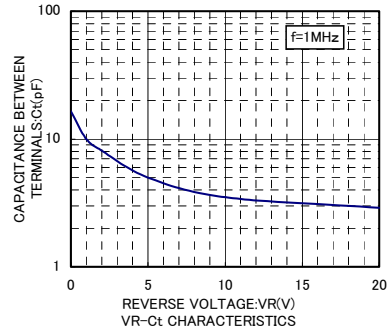
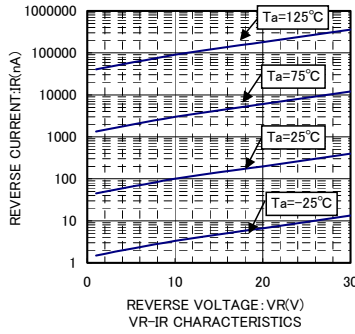
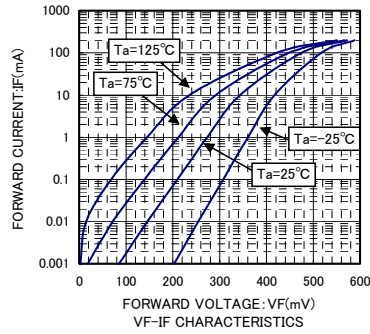
Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.45	V	$I_F = 10\text{mA}$
Forward voltage	$V_F$	-	-	0.50	V	$I_F = 20\text{mA}$
Reverse current	$I_R$	-	-	0.5	$\mu\text{A}$	$V_R = 10\text{V}$

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

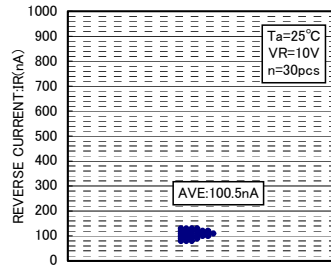




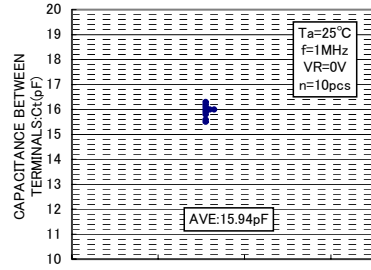
### Electrical characteristic curves (Ta=25°C)



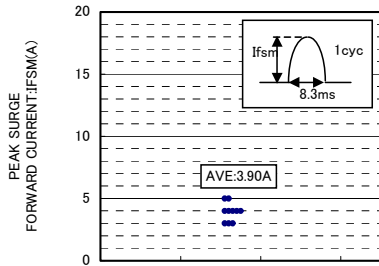
VF DISPERSION MAP



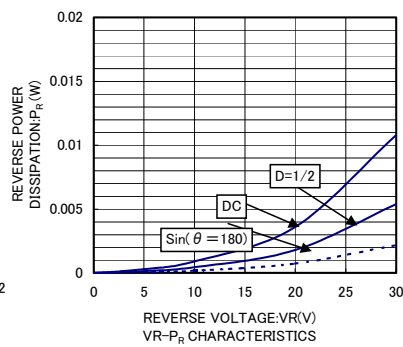
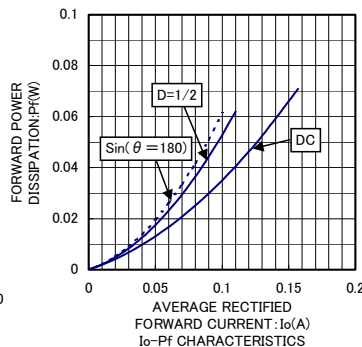
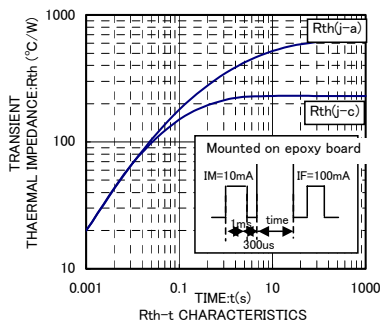
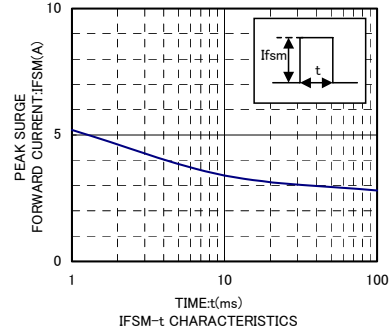
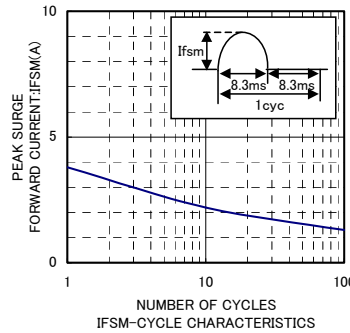
IR DISPERSION MAP



Ct DISPERSION MAP

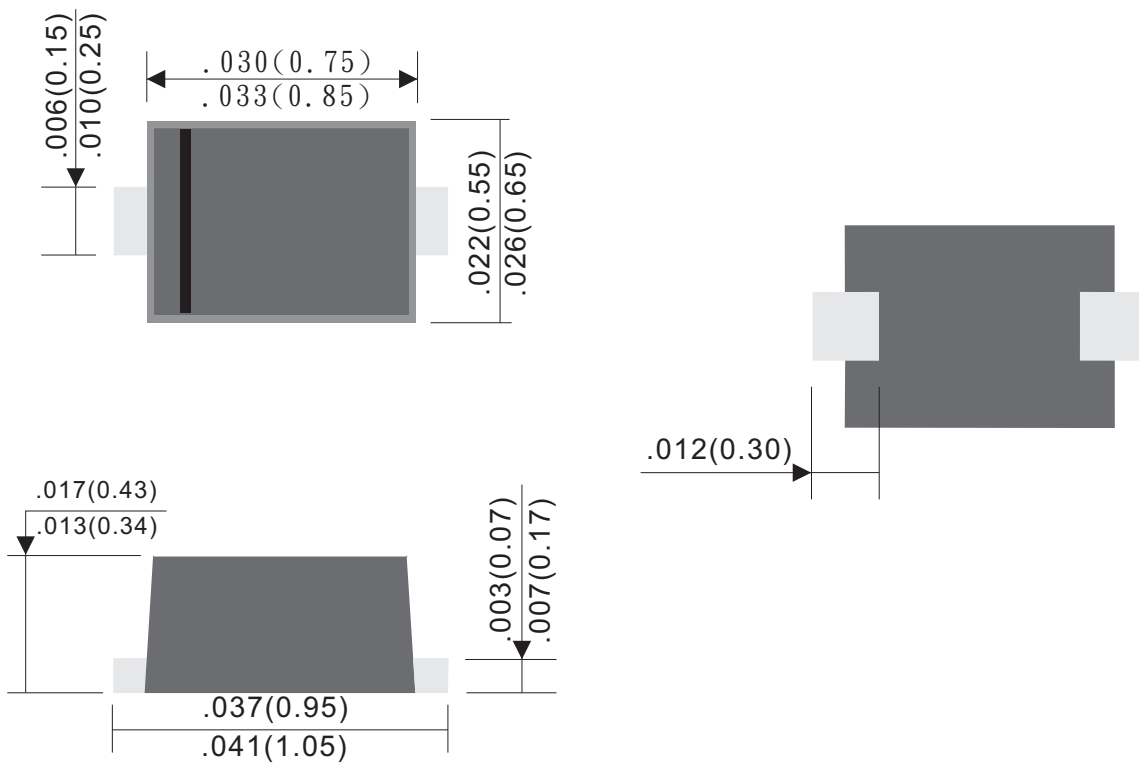


IFSM DISERSION MAP





## SOD-923



Dimensions in inches and (millimeters)

**Ordering Information:**

Device PN	Packing
SCS520CS-30T5 G <sup>(1)</sup> -WS	Tape&Reel: 8 Kpcs/Reel

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

**\*\*\*Disclaimer\*\*\***

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