



30mA Surface Mount Schottky Barrier Rectifiers - 40V SOD-923 Package

SCS751CS-40T5

●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"

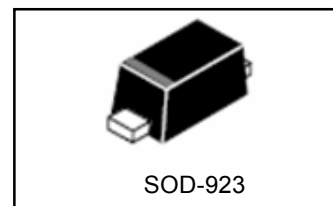
Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1

Polarity: Color band denotes cathode end

●Construction

Silicon epitaxial planar



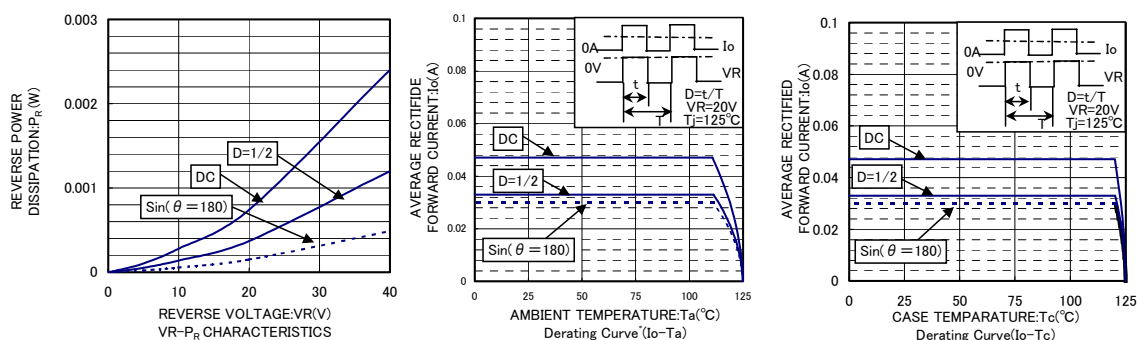
●Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	30	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	200	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	-	0.37	0.37	V	$I_F=1\text{mA}$
Reverse current	I_R	-	0.5	0.5	μA	$V_R=30\text{V}$
Capacitance between terminals	C_t	-	2	-	pF	$V_R=1\text{V}$, $f=1\text{MHz}$

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





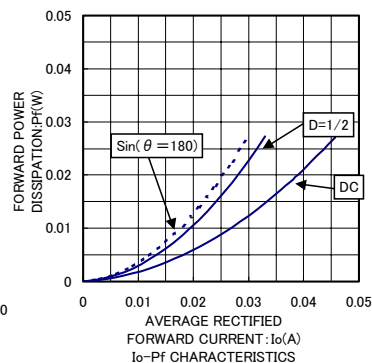
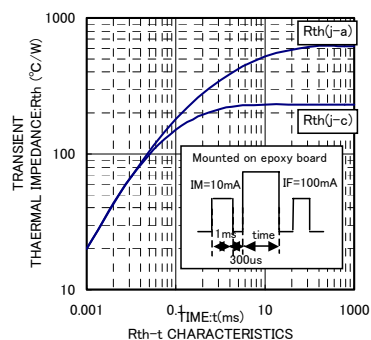
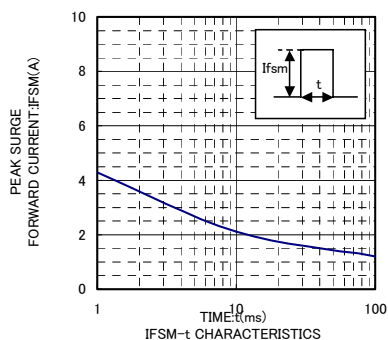
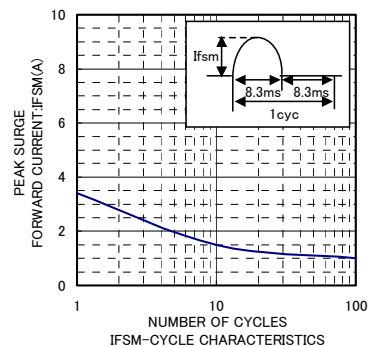
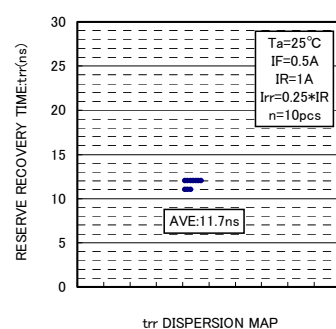
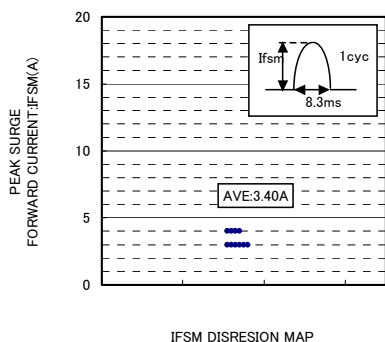
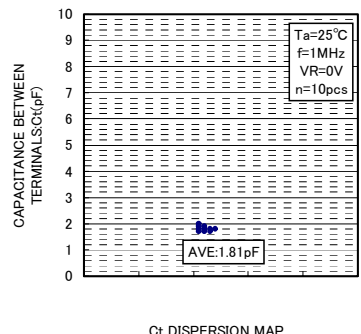
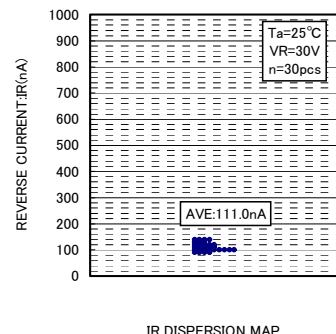
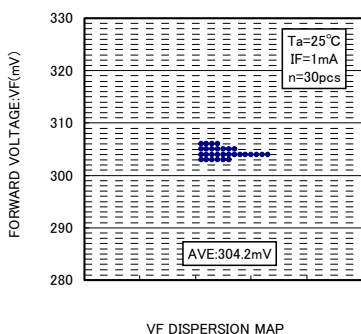
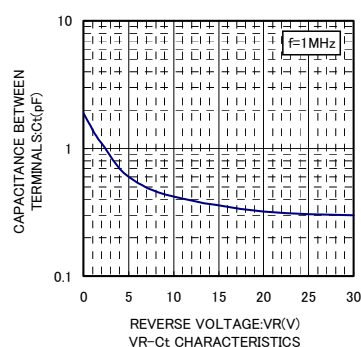
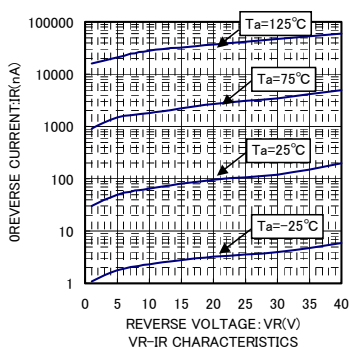
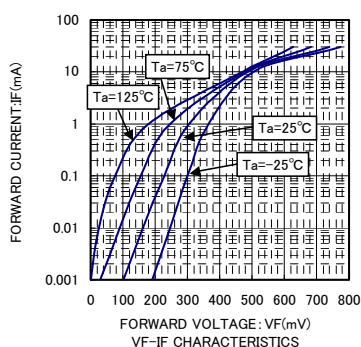
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●Electrical characteristic curves





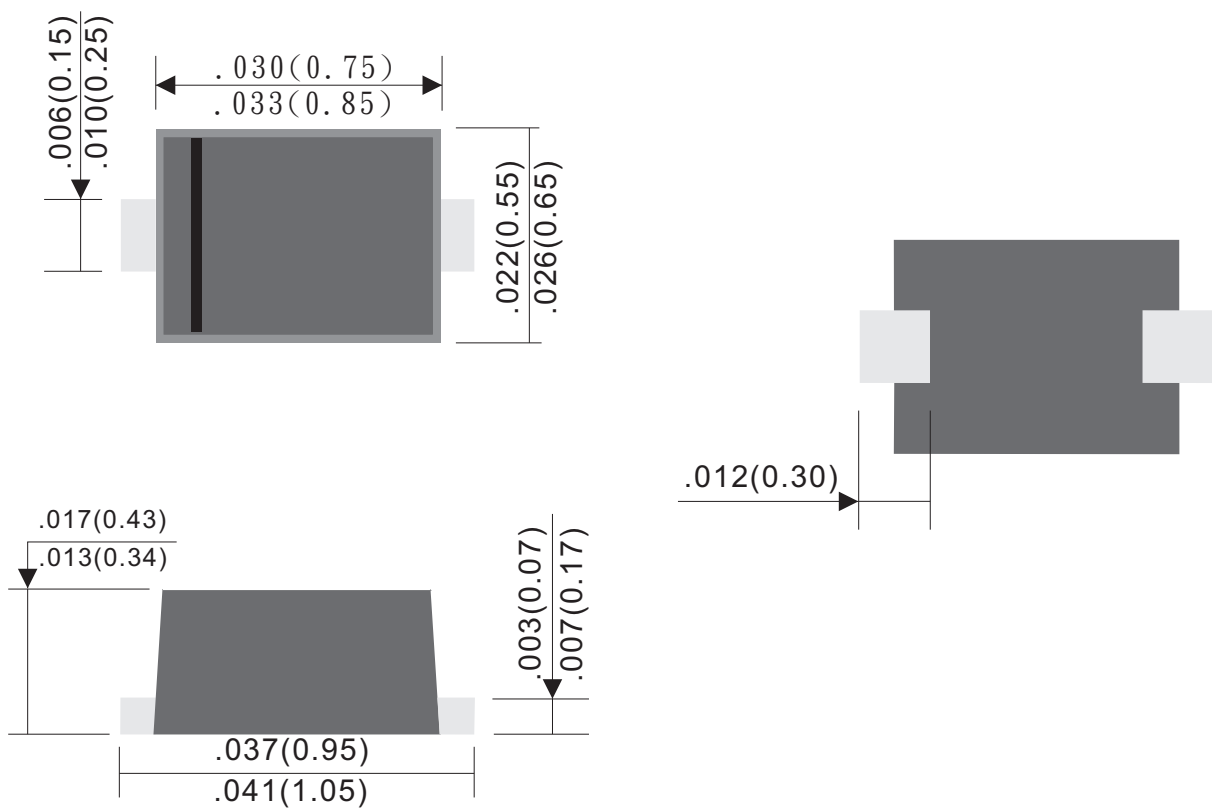
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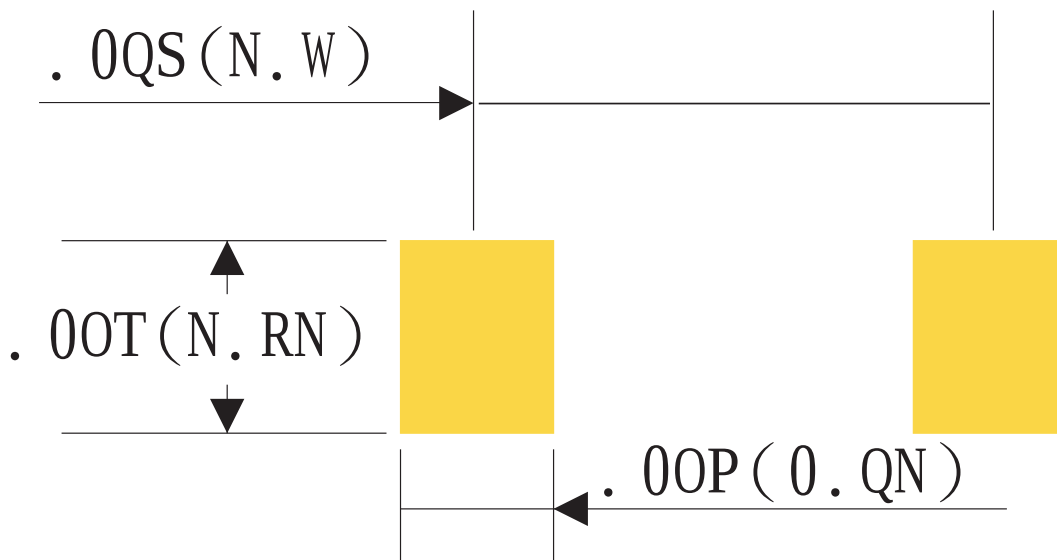


Dimensions in inches and (millimeters)



Suggested Soldering Pad Layout

SOD-923



Dimensions in inches and (millimeters)

RevB



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
SCS751CS-40T5G ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	5	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) 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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