



WILLAS



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

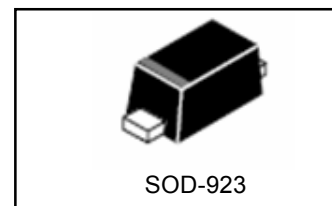
RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

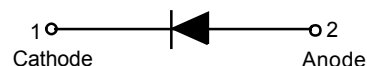
Moisture Sensitivity Level 1

●Construction

Silicon epitaxial planar



SOD-923



Polarity: Color band denotes cathode end

Device Marking And Ordering Information

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

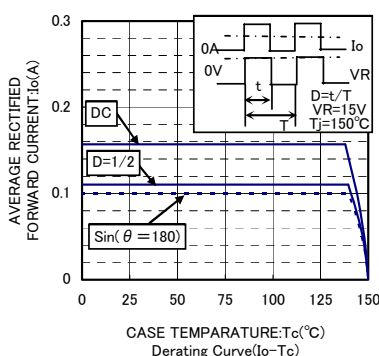
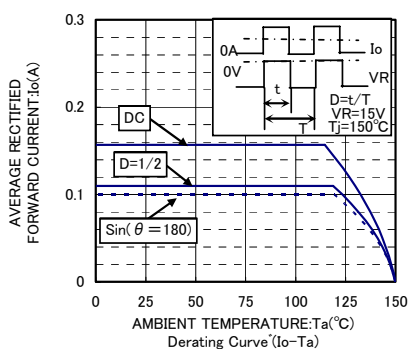
Maximum Ratings ($T_A = 25^\circ\text{C}$)

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	μA	$V_R = 10\text{V}$

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





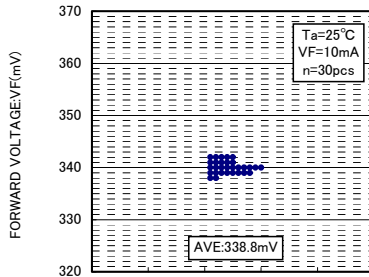
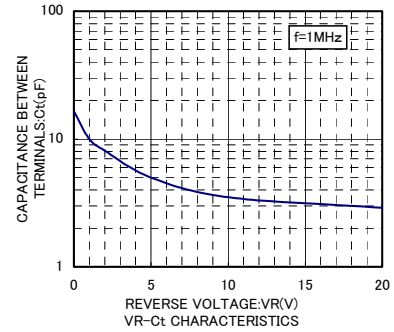
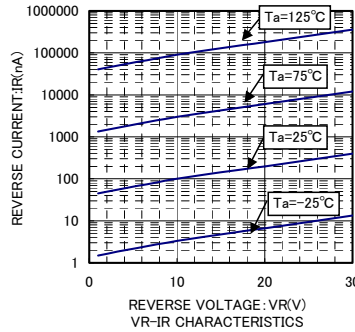
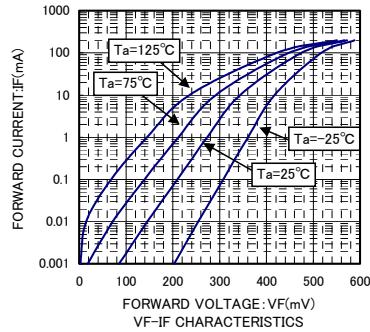
WILLAS



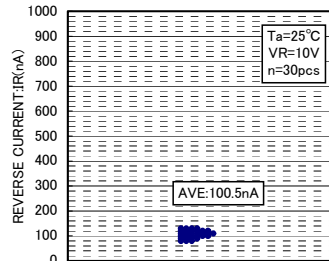
100mA Surface Mount Schottky Barrier Rectifiers - 30V SOD-923 Package

SCS520CS-30T5

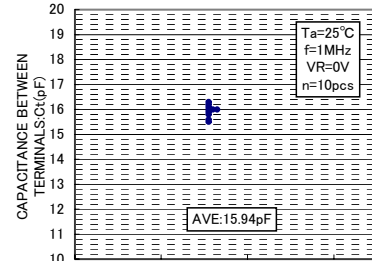
Electrical characteristic curves ($T_a=25^{\circ}\text{C}$)



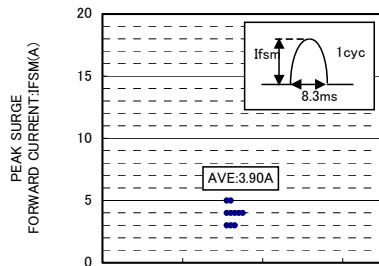
VF DISPERSION MAP



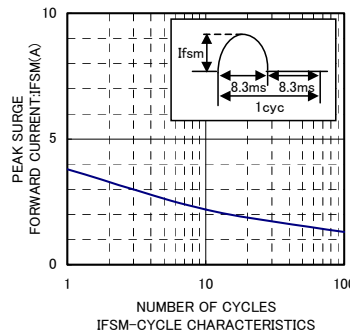
IR DISPERSION MAP



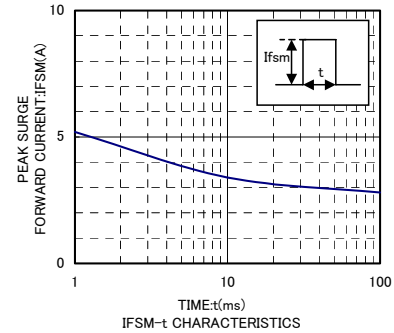
Ct DISPERSION MAP



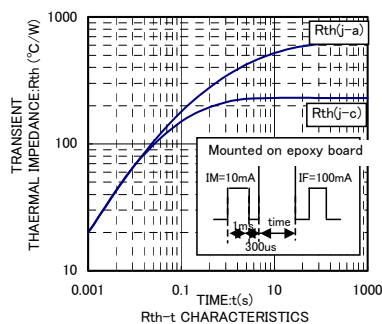
IFSM DISERSION MAP



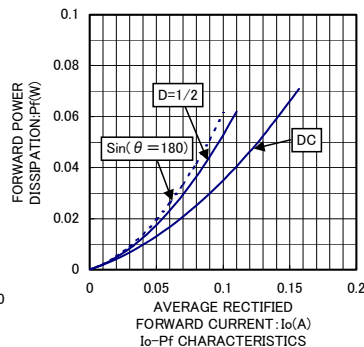
IFSM-CYCLE CHARACTERISTICS



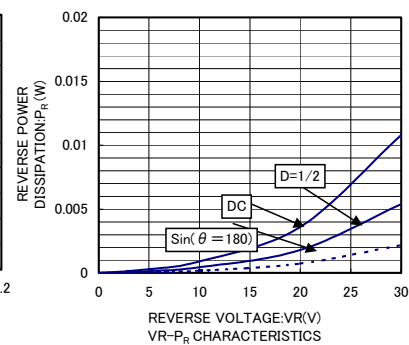
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



VR-Pf CHARACTERISTICS



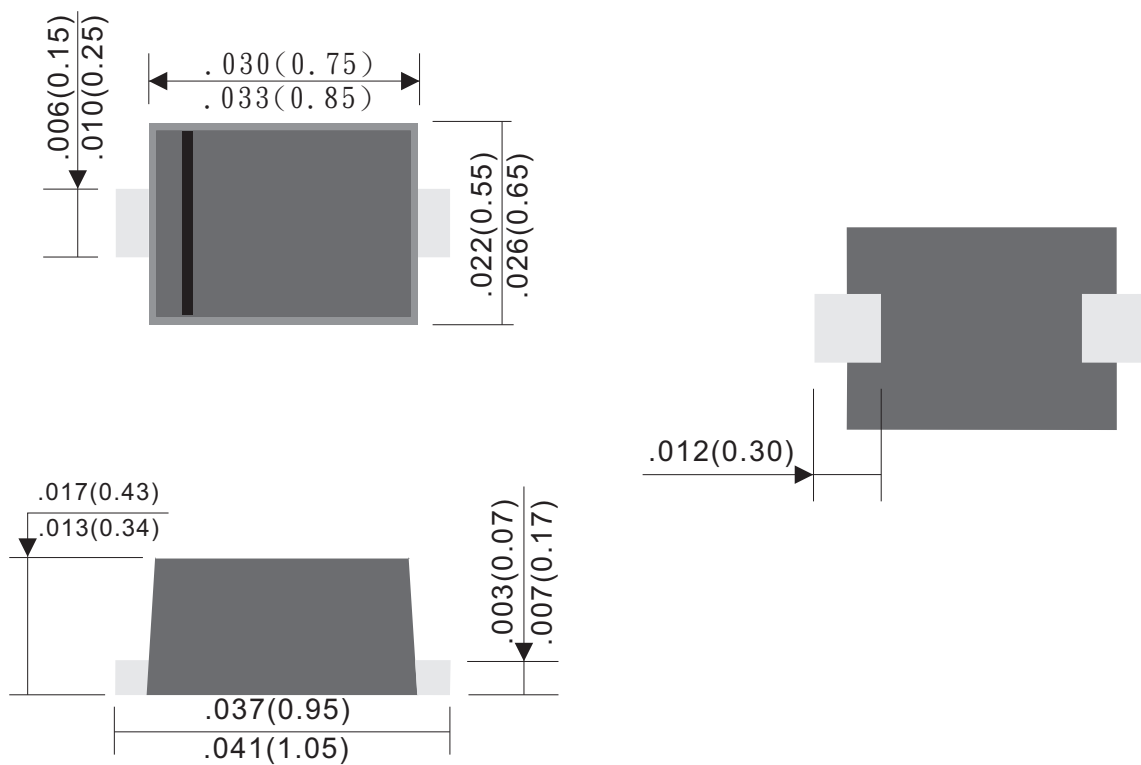
WILLAS



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

SCS520CS-30T5

SOD-923



Dimensions in inches and (millimeters)



Ordering Information:

Device PN	Packing
SCS520CS-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"

Disclaimer

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.