

### SCHOTTKY BARRIER DIODE

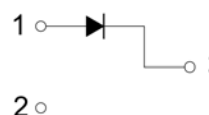
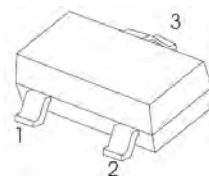
#### FEATURES

- Small Surface Mounting Type
- Low  $V_F$
- High Reliability

#### APPLICATIONS

- Low Power Rectification
- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

SOT-23



#### MARKING: D3C

#### MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ unless otherwise noted )

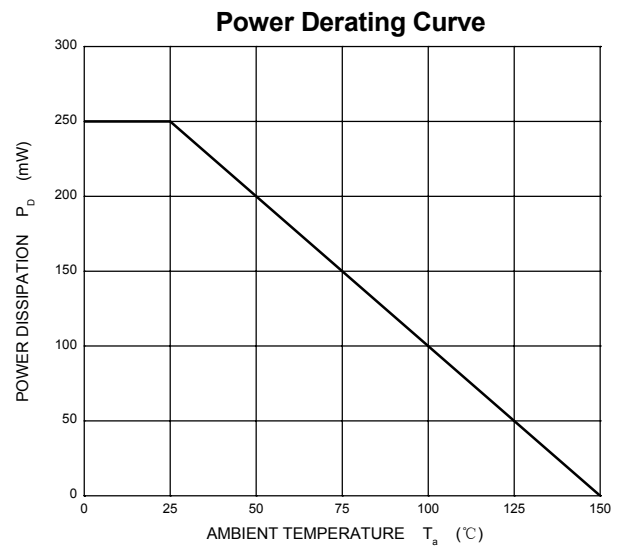
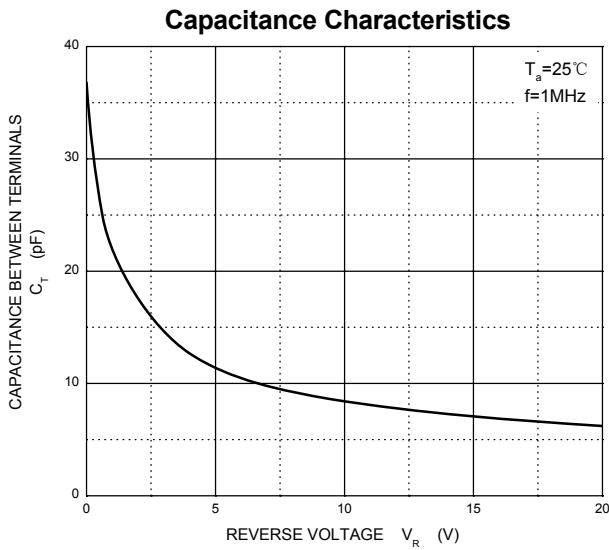
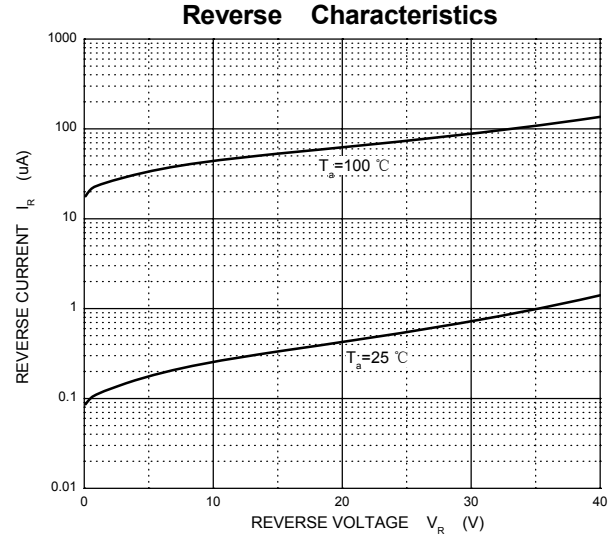
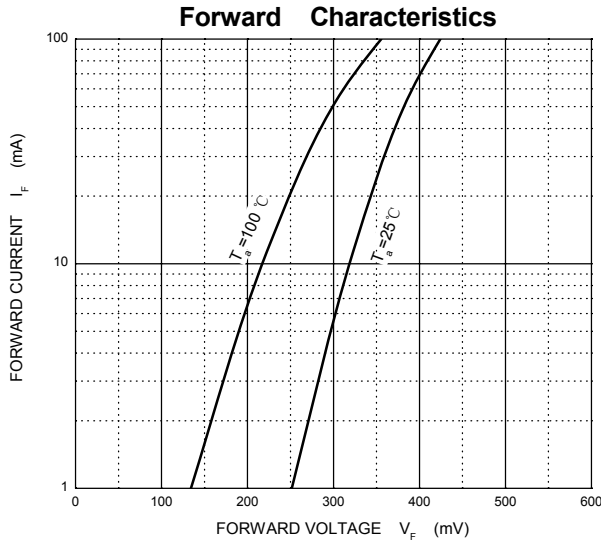
Symbol	Parameter	Value	Unit
$V_R$	DC Blocking Voltage	40	V
$I_O$	Continuous Forward Current	100	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current	1	A
$P_D$	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	$^\circ\text{C}/\text{W}$
$T_J$	Operating Temperature	-55~+125	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~+150	$^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS( $T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	40			V
Reverse current	$I_R$	$V_R=10\text{V}$			30	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=100\text{mA}$			0.55	V
		$I_F=10\text{mA}$			0.34	
Total capacitance	$C_{tot}$	$V_R=10\text{V}, f=1\text{MHz}$		6		pF



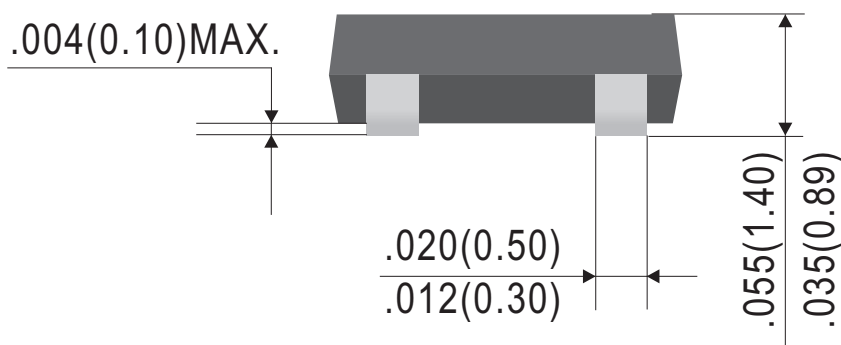
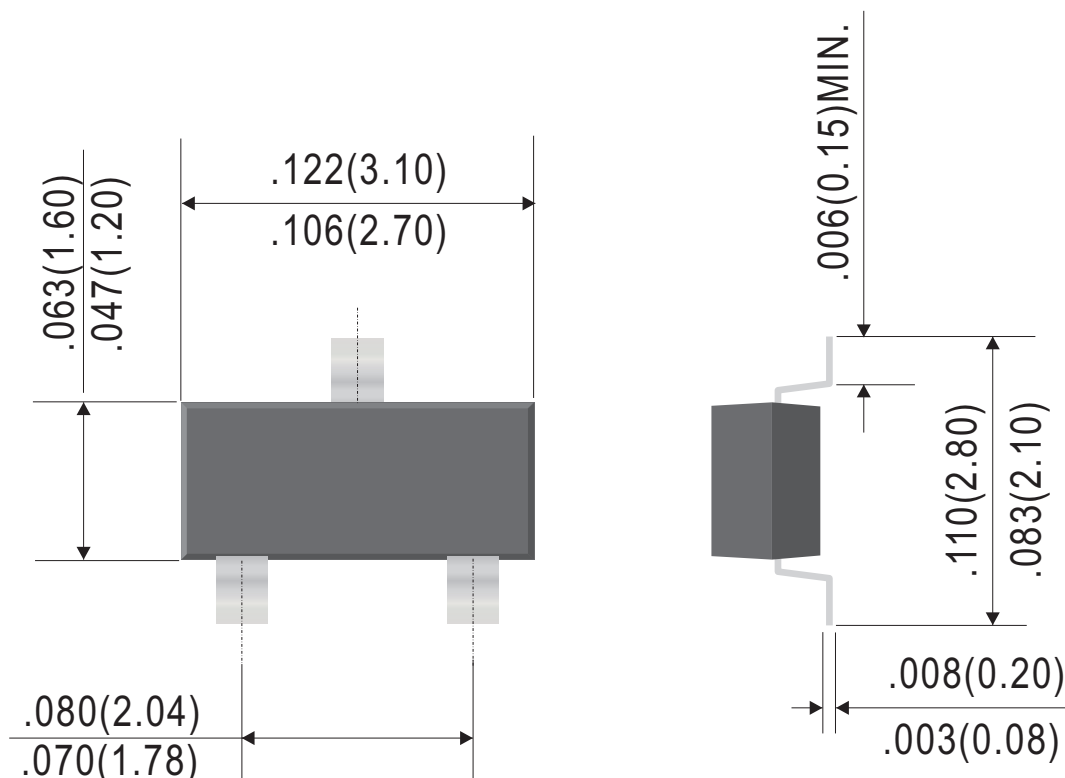
### Typical Characteristics





# Outline Drawing

# SOT-23



Dimensions in inches and (millimeters)



### Ordering Information:

Device PN	Packing
SCS421DS -T <sup>(1)</sup> G <sup>(2)</sup> -WS	Tape&Reel: 3 Kpcs/Reel

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

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

### \*\*\*Disclaimer\*\*\*

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