

SSCS40201L3 Schottky Barrier Diode

• Features

- ♦ Small Surface Mounting TypeLow
- ♦ Ideal for Automated Placement
- ♦ Ultrafast Reverse Recovery Time
- ♦ Low Power Losses, High Efficiency
- ♦ Low Forward Voltage Drop
- ♦ High Surge Capability
- ♦ RoHS Compliant

• PIN configuration



DFN1610-2L (Bottom View)



Circuit Diagram

• Applications

- ♦ Low Voltage
- ♦ High-Frequency Inverters
- ♦ Free Wheeling
- ♦ Polarity Protection



• Absolute maximum rating @T_A=25°C

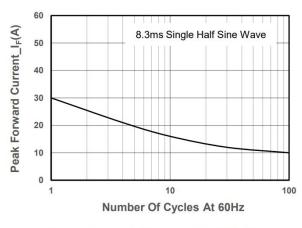
Parameter	Symbol	Value	Unit
Reverse Voltage(Repetitive Peak)	V _{RRM}	40	V
Reverse Voltage(RMS)	V _{R(RMS)}	32	V
DC Blocking Voltage	V _R	40	V
Average Rectified Forward Current	lo	2	А
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	30	А
Thermal Resistance from Junction to Ambient(Typ)	R _{θJA}	80	°C/W
Operating Temperature	TJ	55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



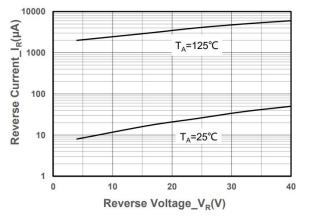
● Electrical Characteristics @T_A=25℃

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Breakdown Voltage	V _{BR}	I _R = 0.5mA	40			V
Devenue Original	V _R =4V			15	uA	
Reverse Current	I _R	V _R =40V			100	
Forward Voltage V _F	N/	I _F =1A			0.47	V
	VF	I _F =2A			0.53	V

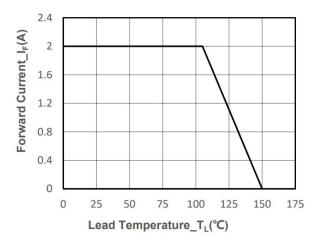
• Typical Performance Characteristics



Surge Forward Current Capability



Reverse Voltage vs. Reverse Current



Power Derating vs. Lead Temperature



• Package Information

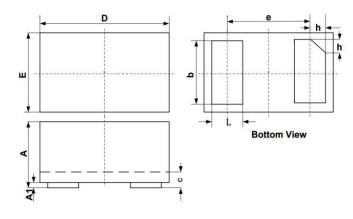
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS40201L3	DFN1610-2L	SS24	3000	7 Inch

Mechanical Data

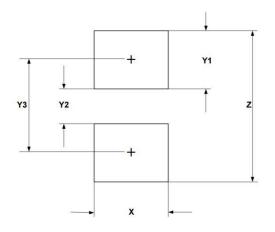
Case: DFN1610-2L

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters		
	Min	Мах	
А	0.45	0.55	
A1	0.00	0.05	
b	0.75	0.85	
с	0.10	0.2	
D	1.55	1.65	
E	0.95	1.05	
е	1.10BSC		
L	0.35	0.45	
н	0.15	0.25	

Recommended Pad outline(Unit: mm)



DIM	Millimeters	
	Туре	
X	1.00	
Y1	0.62	
Y2	0.60	
Y3	1.22	
Z	1.85	



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