



SSCS40201L6

Schottky Barrier Diode

● Features

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

● Applications

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

● PIN configuration



DFN1608-2L



Circuit Diagram



Marking (Top View)

● Absolute maximum rating @T_A=25°C

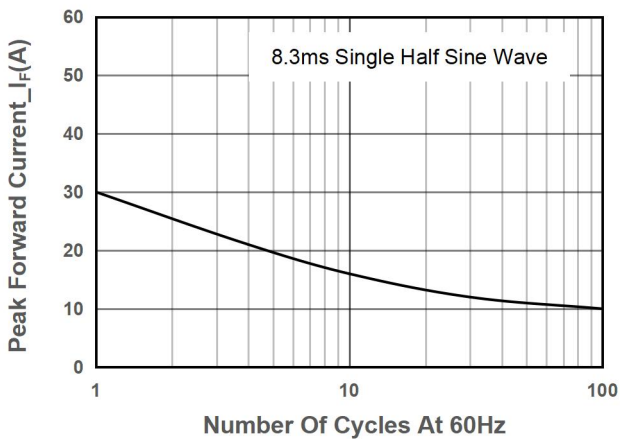
Parameter	Symbol	Value	Unit
Reverse Voltage (Repetitive Peak)	V _{RRM}	40	V
Reverse Voltage (RMS)	V _{R(RMS)}	32	V
DC Blocking Voltage	V _R	40	V
Average Rectified Forward Current	I _O	2	A
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	30	A
Thermal Resistance Junction to Ambient (Typ.)	R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



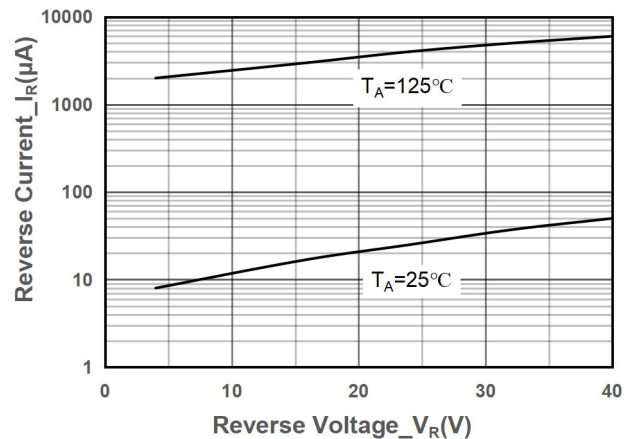
● **Electrical Characteristics @ $T_A=25^\circ\text{C}$**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V_{BR}	$I_R = 0.5\text{mA}$	40			V
Reverse Current	I_R	$V_R = 4\text{V}$			15	μA
		$V_R = 40\text{V}$			100	
Forward Voltage	V_F	$I_F = 1\text{A}$			0.47	V
		$I_F = 2\text{A}$			0.53	

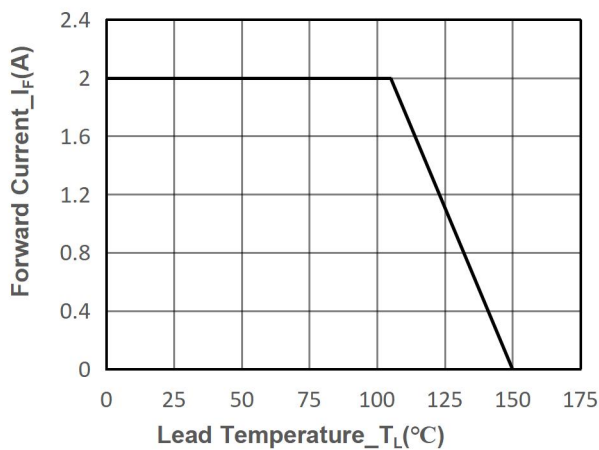
● **Typical Performance Characteristics**



Surge Forward Current Capability



Reverse Voltage vs. Reverse Current



Power Derating vs. Lead Temperature



- **Package Information**

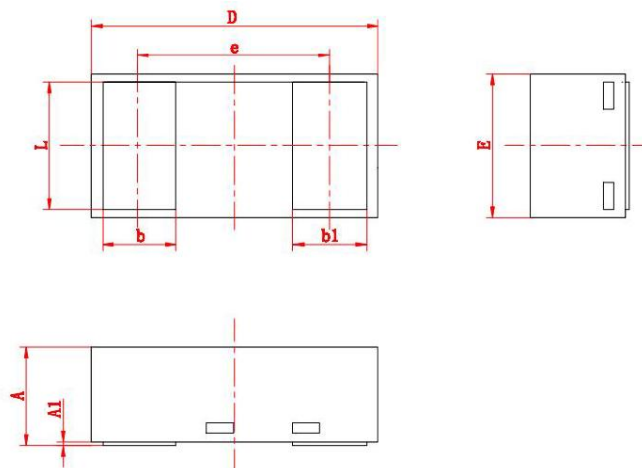
- ◇ **Ordering Information**

Device	Package	Marking	Qty per Reel	Reel Size
SSCS40201L6	DFN1608-2L	S24	3000	7 Inch

- ◇ **Mechanical Data**

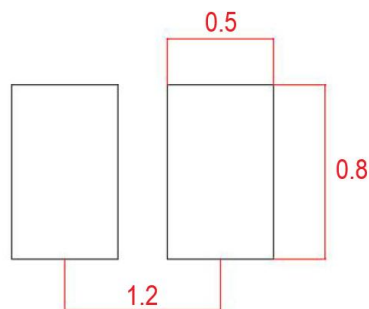
Case: DFN1608-2L

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters		
	Min	Nor	Max
A	0.50	-	0.60
A1	0	-	0.05
D	1.50	-	1.70
E	0.75	-	0.85
e	(1.05)		
b	0.36	-	0.46
b1	0.36	-	0.46
L	0.66	-	0.76

- ◇ **Recommended Pad outline (Unit: mm)**





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