



SSCS40101L6

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
- ✧ UL Flammability Classification Rating 94V-0
- ✧ Moisture Sensitivity: Level 3 per J-STD-020

● PIN configuration



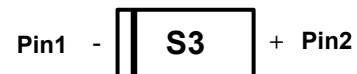
DFN1608-2L



Circuit Diagram

● Applications

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



Marking(Top View)

● Absolute maximum rating @T_A=25°C

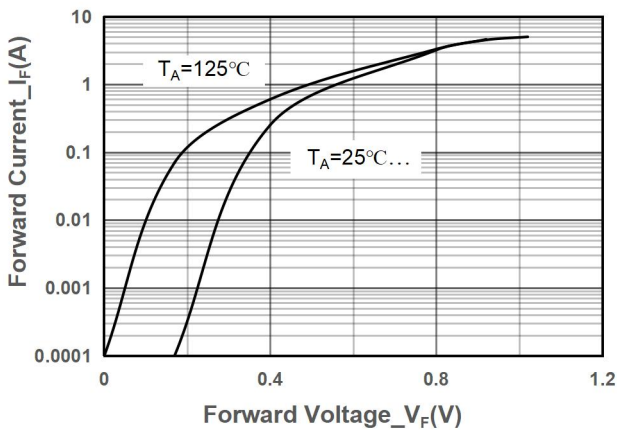
Parameter	Symbol	Value	Unit
Reverse Voltage(Repetitive Peak)	V _{R(RM)}	40	V
Reverse Voltage(RMS)	V _{R(RMS)}	32	V
DC Blocking Voltage	V _R	40	V
Average Rectified Forward Current	I _O	1.5	A
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	5	A
Power Dissipation	P _D	410	mW
Thermal Resistance Junction to Ambient(Typ)	R _{θJA}	305	°C/W
Operating Temperature	T _J	55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



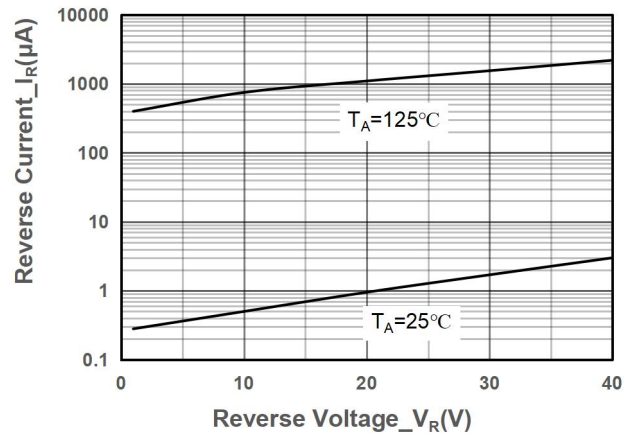
● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V _{BR}	I _R = 0.1mA	40			V
Reverse Current	I _R	V _R = 40V			20	μA
Total Capacitance	C _T	V _R = 10V, f = 1MHz			25	pF
Forward Voltage	V _F	I _F = 100mA	0.345		0.39	V
		I _F = 700mA	0.48		0.55	
		I _F = 1A	0.54		0.60	

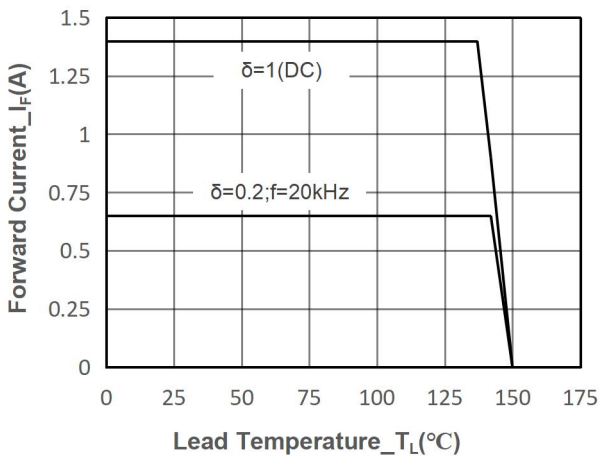
● Typical Performance Characteristics



Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Lead Temperature



● Package Information

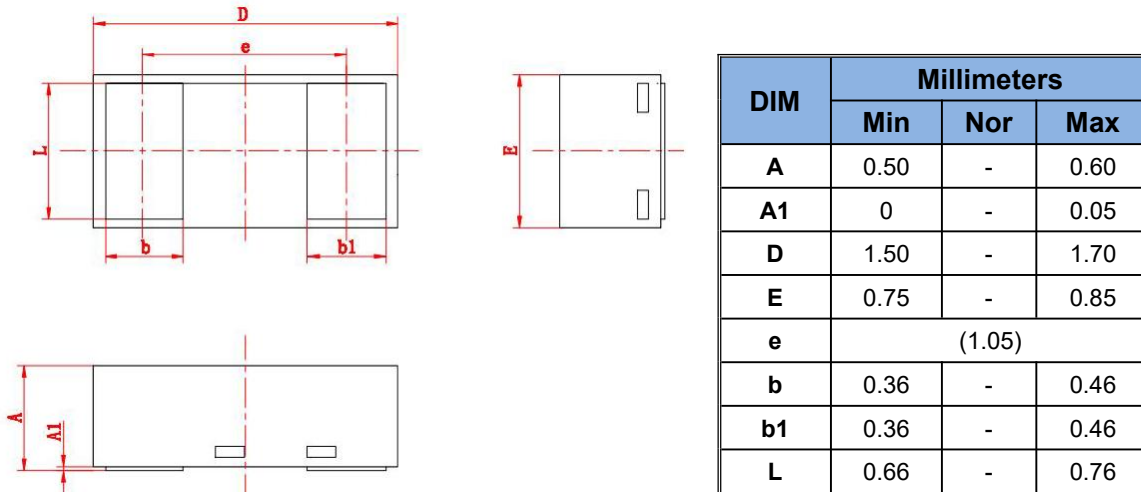
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS40101L6	DFN1608-2L	S3	3000	7 Inch

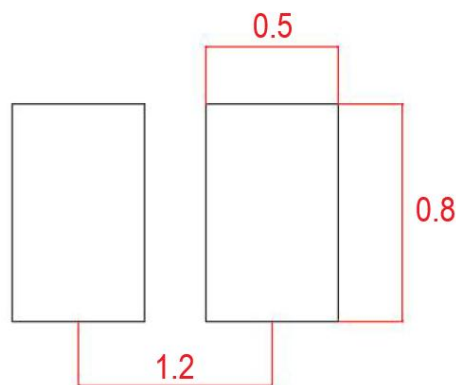
Mechanical Data

Case: DFN1608-2L

Case Material: Molded Plastic. UL Flammability



Recommended Pad outline (Unit:mm)





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