

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





Absolute maximum rating @T_A=25℃

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	Io	2	Α
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	30	Α
Thermal Resistance Junction to Ambient (Typ.)	R _{θJA}	80	°C/W
Operating Temperature	TJ	55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	$^{\circ}$ C

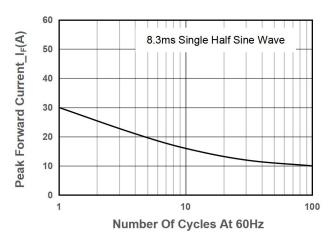


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• Electrical Characteristics @T_A=25℃

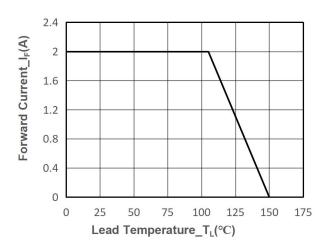
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Breakdown Voltage	V _{BR}	I _R = 0.5mA	40			V
Reverse Current	I _R	V _R = 4V			15	μА
		V _R = 40V			100	
Forward Voltage	V _F	I _F = 1A			0.47	\/
		I _F = 2A			0.53]

• Typical Performance Characteristics



Surge Forward Current Capability

Reverse Voltage vs. Reverse Current



Power Derating vs. Lead Temperature



Package Information

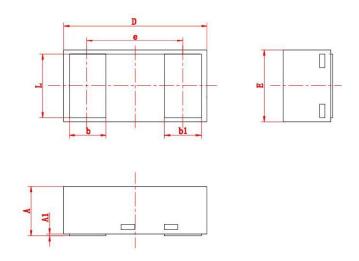
♦ Ordering Information

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

♦ Mechanical Data

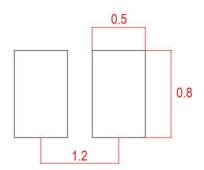
Case: DFN1608-2L

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters			
	Min	Nor	Max	
Α	0.50	-	0.60	
A 1	0	1	0.05	
D	1.50	-	1.70	
E	0.75	1	0.85	
е	(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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