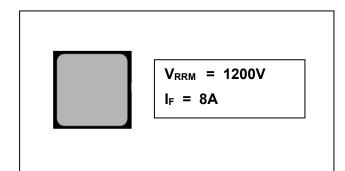


SD4-1200-S008AB SiC Schottky Power Rectifier Chip



Description

- 1200-Volt Schottky Rectifier
- Zero Reverse Recovery
- Zero Forward Recovery
- High-Frequency Operation
- Temperature-Independent Switching Behavior
- Extremely Fast Switching
- Positive Temperature Coefficient on VF

Part Number	Die Size	Anode	Cathode
SD4-1200-S008AB	2.25 imes 2.25 mm ²	AI	Ag

Maximum Ratings:

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	Vrrm	1200	V
Surge Peak Reverse Voltage	V _{RSM}	1200	V
DC Peak Blocking Voltage	V _R	1200	V
Maximum DC Current	I _F	8	A
Non-Repetitive Forward Surge Current	IFSM	64	A
Operating Junction and Storage Temperature	T _J , T _{stg}	-55 to +175	°C
Maximum Procesing Temperature	T _{Proc}	325	°C

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Electrical Characteristics(T=25°C unless otherwise specified):

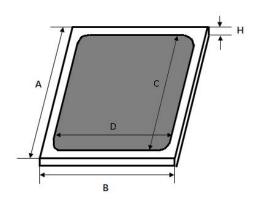
Parameter	Symbol	Condition	Тур.	Max.	Units
DC Forward Voltage	N	I _F = 8 A, TJ=25°C	1.6	1.8	V
	VF	I _F = 8 A, TJ=175°C	2.2	3.0	V
Reverse Current		V _R = 1200 V, T _J =25°C	35	200	uA
	I _R	V _R = 1200 V, T _J =175°C	100	350	uA
Junction Capacitance	Ст	V _R =0V, T _J =25℃, f=1MHz	560	-	pF

* Pulse width < 300 μ s, duty cycle < 2%

Mechanical Parameters:

Parameter	Тур.	Unit
Die Size	2.25×2.25	mm
Anode Pad opening	1.56×1.56	mm
Thickness	350±10%	μm
Wafer Size	152.4	mm
Anode Metalization (Al)	4	μm
Cathode Metalization (Ag)	0.4	μm
Frontside Passivation	Polyimide	

Chip Dimension



symbol	Dimension +/- 10%
A	2.25 mm
В	2.25 mm
С	1.56 mm
D	1.56 mm
Н	350 um

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