Features

- 125°C T_J operation (V_R<5V)
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- **Optimized for OR-ing applications**
- Ultra low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

- Parallel switching power supply
- Converters
- Redundant power subsystems
- **Reverse battery protection**

Maximum Ratings:

Circuit Diagram

Cathode

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	15(DC) 25(Working)	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _c =55°C, rectangular wave form	9	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T_c =25°C	480	А
Non-Repetitive Avalanche Energy	E _{AS}	TJ=25℃,I _{AS} =1.8A,L=7.4mH	12	mJ
Repetitive Avalanche Current	I _{AR}	Current decaying linearly to zero in 1 µsec Frequency limited by T_J max. $V_A=1.5 \times V_R$ typical	1.8	A

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 9A, Pulse, T _J = 25 °C	0.31	0.34	V
		@ 18A, Pulse, T _J = 25 °C	0.35	0.37	v
	V _{F2}	@ 9A, Pulse, T _J = 125 °C	0.22	0.25	V
		@ 18A, Pulse, TJ = 125 °C	0.28	0.31	v
Reverse Current*	I _{R1}	$@V_R = rated VR$, T _J = 25 °C	2	7.0	mA
	I _{R2}	$@V_R = rated VR$, T _J = 100 °C	180	348	mA
	I _{R3}	@V _R = 12 V ,T _J = 100 °C	130	310	mA
	I _{R4}	@V _R = 5 V ,T _J = 100 °C	80	190	mA
Junction Capacitance	Ст	$@V_{R} = 5V, T_{C} = 25 \ ^{\circ}C, f_{SIG} = 1MHz$	1100	1300	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/us

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

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95SQ015 SCHOTTKY RECTIFIER



Anode





95SQ015





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95SQ015

RoHS Pb

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Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	$R_{ ext{ heta}JL}$	DC operation	8	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	44	°C/W
Approximate Weight	wt	-	1.02	g

Ratings and Characteristics Curves



Typical Forward Characteristics

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Mechanical Dimensions DO-201AD



SYMDOL	SYMBOL Millim		Inches	
STMBOL	Min.	Max.	Min.	Max.
А	25.4	-	1.000	-
В	8.50	9.50	0.335	0.374
С	1.2	1.3	0.048	0.052
D	5.0	5.6	0.197	0.220

Ordering Information

Device	Package	Shipping
95SQ015	DO-201AD (Pb-Free)	1250pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification DO-201AD



SYMBOL	Millimeters		
STWIDOL	Min.	Max.	
А	9.50	10.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	-	0.80	
IL1-L2I	_	1.0	



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