

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





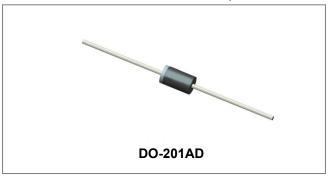








95SQ015 SCHOTTKY RECTIFIER



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.

Circuit Diagram



Applications

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

Maximum Ratings:

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	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T _C =25°C	480	Α
Non-Repetitive Avalanche Energy	E _{AS}	T _J =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×V _R typical	1.8	А

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, T _J = 25 °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	$@V_R = 5V, T_C = 25 °C, f_{SIG} = 1MHz$	1100	1300	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/us

^{*} Pulse width < 300 µs, duty cycle < 2%

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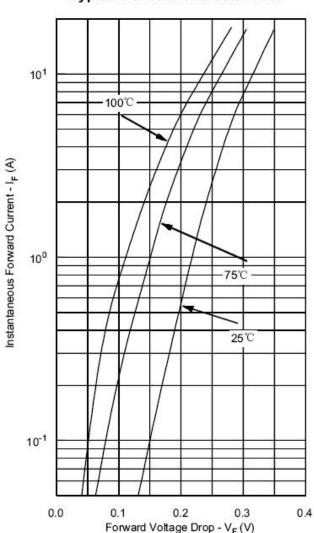


Thermal-Mechanical Specifications:

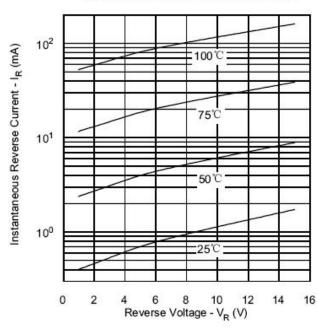
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	$R_{ heta JL}$	DC operation	8	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	44	°C/W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

Ratings and Characteristics Curves

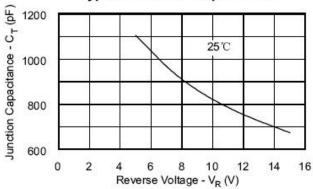
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



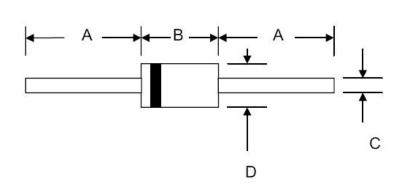
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Mechanical Dimensions DO-201AD



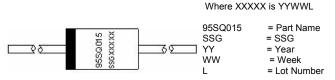
SYMBOL	Millimeters		Inches		
STMBOL	Min.	Max.	Min.	Max.	
Α	25.4	-	1.000	-	
В	8.50	9.50	0.335	0.374	
С	1.2	1.3	0.048	0.052	
D	5.0	5.6	0.197	0.220	

Ordering Information

Device	Package	Shipping	
95SQ015	DO-201AD	1250pcs / tape	
9550015	(Pb-Free)	1250pcs / tape	

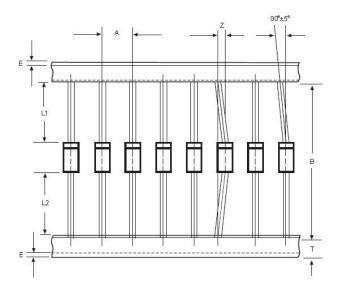
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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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