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95SQ015 SCHOTTKY RECTIFIER

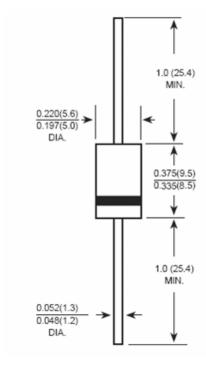
Applications:

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

Features:

- 125 °C T_J operation (VR<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

Mechanical Dimensions: In Inches / mm



DO-201AD

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Marking Diagram:



Where XXXXX is YYWWL

95SQ015 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
95SQ015	DO-201AD	1250naa / tana
	(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.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	15 (DC) 25 (Working)	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 55 °C, rectangular wave form	9	Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	480	А
Non-Repetitive Avalanche Energy (per leg)	E _{AS}	T _J = 25 °C, I _{AS} = 1 A, L = 9.0 mH	4.5	mJ
Repetitive Avalanche Current (per leg)	I _{AR}	Current decaying linearly to zero in 1 µsec Frequency limited by T _J max. V _A = 3 x V _R typical	1	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 9 A, Pulse, T _J = 25 °C	0.34	V
		@ 18 A, Pulse, T _J = 25 °C	0.37	
	V_{F2}	@ 9 A, Pulse, T _J = 125 °C	0.25	V
		@ 18 A, Pulse, T _J = 125 °C	0.31	
Max. Reverse Current	I _{R1}	$@V_R = \text{rated } V_R, T_J = 25 ^{\circ}\text{C}$	7.0	mA
	I _{R2}	$@V_R = \text{rated } V_R , T_J = 100 ^{\circ}\text{C}$	348	mA
	I_{R3}	@V _R = 12 V ,T _J = 100 °C	310	mA
	I _{R4}	@V _R = 5 V ,T _J = 100 °C	190	mA
Typical Junction Capacitance	Ст	@V _R = 5.0 V, Tc=25℃	1300	pF
		$f_{SIG} = 1MHz$		
Typical Series Inductance	Ls	Measured lead to lead 5 mm from	8.0	nΗ
(per leg)		package body		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

^{*} Pulse Width < 300 μ s, Duty Cycle <2%

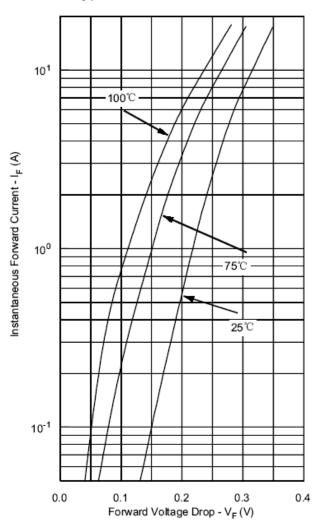
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +125	°C
Storage Temperature Range	T_{stg}	-	-55 to +150	°C
Maximum Thermal Resistance, Case to Heat Sink	$R_{ hetaJA}$	-	44	°C/W
Maximum Thermal Resistance, Junction to lead	$R_{ heta JL}$	-	8	°C/W
Approximate Weight	wt	-	1.02	g
Case Style		DO-201AD		-

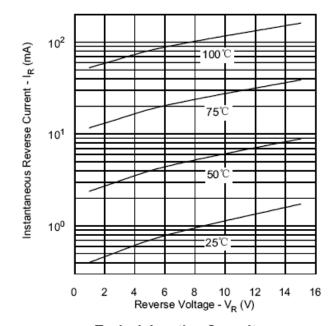


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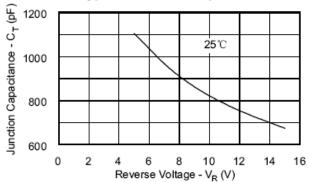
Typical Forward Characteristics



Typical Reverse Characteristics







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