

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!



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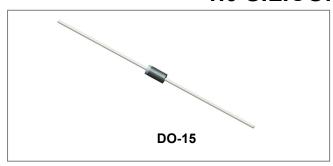








RL201-RL207 1.0 SILICON RECTIFIERS



Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.40 grams

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Type Number	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current @T _A = 75°C	Io				2.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				70				Α
Forward Voltage @I _F =2.0A	V_{FM}				1.0				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}				5.0 50				μA
Typical Junction Capacitance (Note 1)	Сл				20				pF
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}				40				°C/W
Operating Junction Temperature Range	TJ			-	65 to +1	25			°C
Storage Temperature Range	T _{STG}			-	65 to +1	50			°C

*Glass passivated forms are available upon request

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

- 2. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted
 - China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com

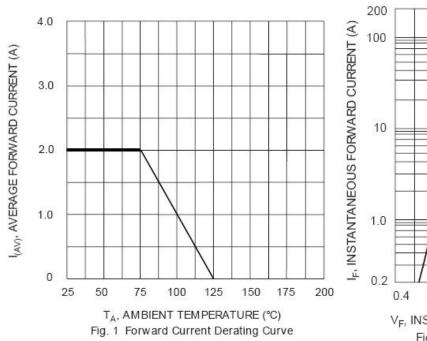


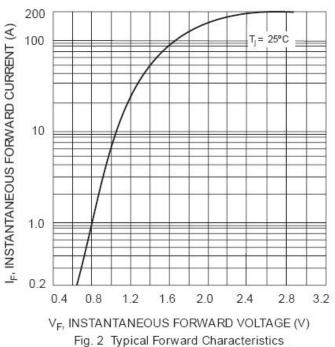
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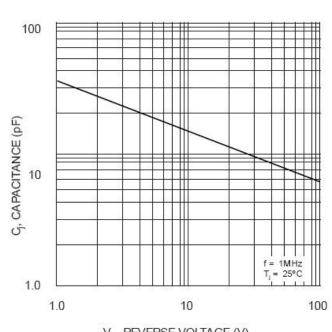




Ratings and Characteristics Curves







I_{FSM}, PEAK FORWARD SURGE CURRENT (A) 100 Tj = 25°C Pulse width = 300μs 10 10 100 1.0

NUMBER OF CYCLES AT 60Hz Fig. 3 Maximum Non-Repetitive Surge Current

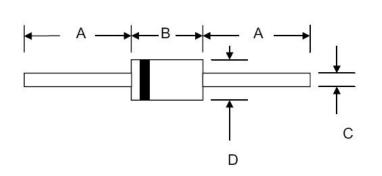








Mechanical Dimensions DO-15



SYMBOL	Millin	neters	Inches			
OTMBOL	Min.	Max.	Min.	Max.		
А	25.4	-	1.000	-		
В	5.5	7.62	0.217	0.300		
С	0.7	0.9	0.028	0.034		
D	2.6	3.6	0.104	0.140		

Ordering Information

Device	vice Package	
RL201-RL207	DO-15 (Pb-Free)	3000pcs /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



Where XXXXX is YYWWL

 RL201
 = Type Number

 SSG
 = SSG

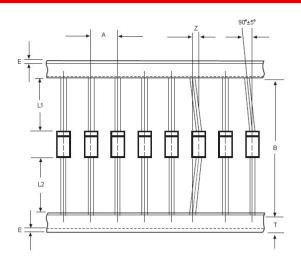
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

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

Carrier Tape Specification DO-15



SYMBOL	Millimeters			
	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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