

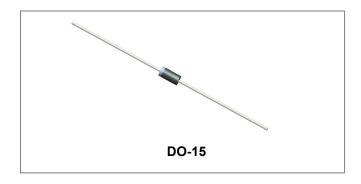
Data Sheet N1630, Rev. A

Technical Data

RL251G-RL257G

RoHS 🗭

RL251G THRU RL257G GENERAL PURPOSE PLASTIC RECTIFIER



Features

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Solder Resistance 270°C / 7s, or 380°C / 3s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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 @TA=25°C unless otherwise specified

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

Characteristic	Symbol	RL 251G	RL 252G	RL 253G	RL 254G	RL 255G	RL 256G	RL 257G	Units
Maximum repetitive peak reverse voltage Maximum DC blocking voltage	V _{RRM} V _{DC}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum average forward rectified current $0.375"(9.5mm)$ lead length $@T_A = 75^{\circ}C$	I _(AV)	2.5					А		
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	IFSM	120				А			
Maximum instantaneous forward voltage at 2.5A	VF	1.1				V			
Maximum DC reverse current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I _R	2.5 50.0				μA			
Typical Junction Capacitance (Note 1)	CJ	45.0			pF				
Typical Thermal Resistance (Note 2)	Reja	45.0				°C/W			
Operating and Storage Temperature Range	T _{J,} T _{STG}	-55 to +150				°C			

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

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Circuit Diagram



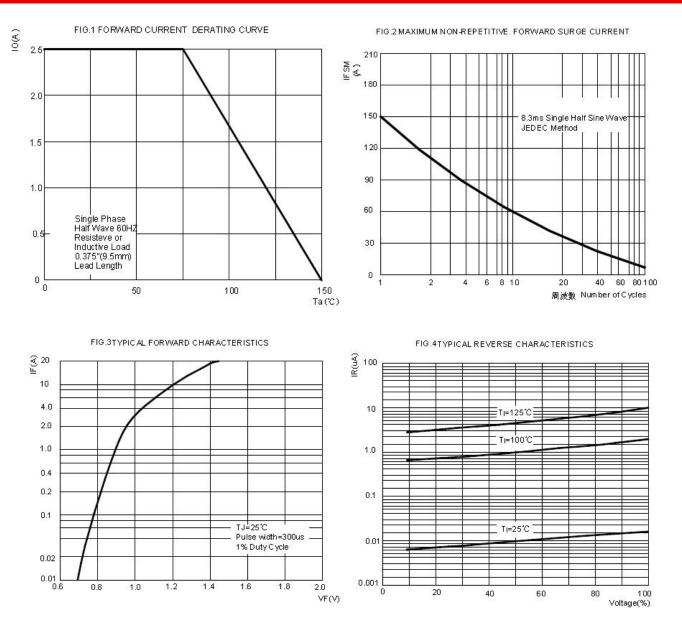


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Ratings and Characteristics Curves



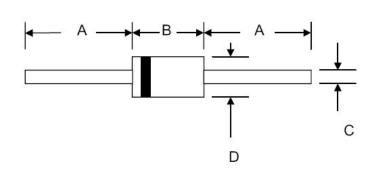


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Mechanical Dimensions DO-15



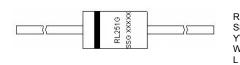
SYMBOL	Millin	neters	Inches			
	Min. Max.		Min.	Max.		
A	25.4	-	1.000	-		
В	5.5	7.62	0.217	0.300		
С	0.7	0.9	0.028	0.034		
D	2.6	3.6	0.104	0.140		

Ordering Information

Device	Package	Shipping		
RL251G-RL257G	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

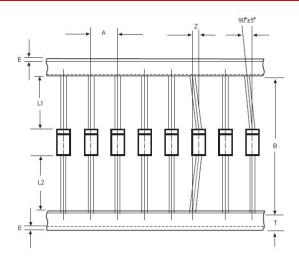


Where XXXXX is YYWWL

- RL251G = Type Number SSG YY
 - = SSG
 - = Year = Week
- WW = Lot Number

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

Carrier Tape Specification DO-15



SYMBOL	Millimeters			
	Min.	Max.		
A	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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