

Technical Data Data Sheet N1630, Rev. - **Green Products**

RL251G-RL257G GENERAL PURPOSE PLASTIC RECTIFIER

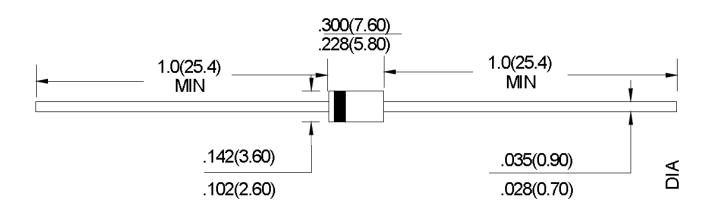
Features:

- 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: Molded plastic, DO-15
- Terminals: Axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Mechanical Dimensions: In mm



DO-15



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Marking Diagram:



Where XXXXX is YYWWL

RL251G= Part NameSSG= SSGYY= YearWW= WeekL= Lot Number

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

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.



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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	SYMBOL	RL251G	RL252G	RL253G	RL254G	RL255G	RL256G	RL257G	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375″(9.5mm) lead length at T A =75 ℃	I _(AV)	2.5						Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	120							Amps
Maximum instantaneous forward voltage at 2.5A	V _F	1.1						Volts	
Maximum DC reverse current TA=25 ඊ at rated DC blocking voltage TA=100 ඊ	I _R	2.5 50.0						μA	
Typical junction capacitance (NOTE 1)	CJ	45.0						pF	
Typical thermal resistance (NOTE 2)	R⊎ja	45.0						۳۸ ٽ	
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150						Ĵ	

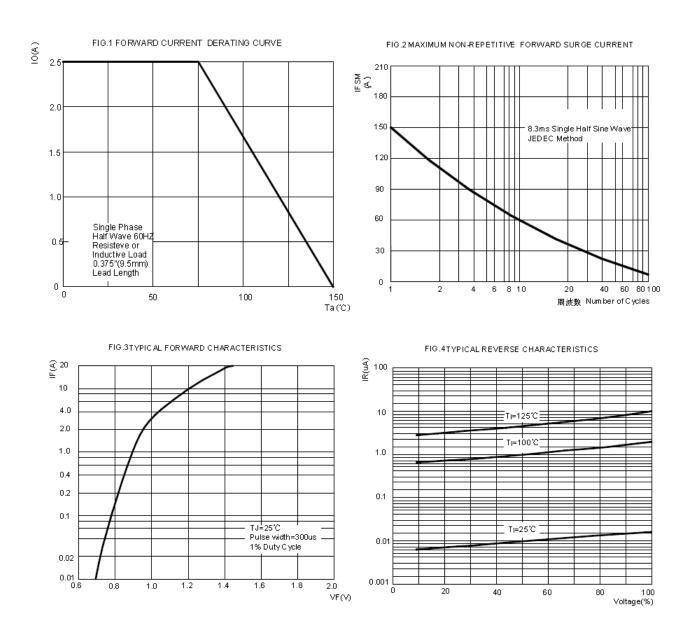
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted



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