

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RL251 THRU RL257

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.5 Amperes

FEATURES

- * Low cost
- * Low leakage current
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94-V0 rate flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

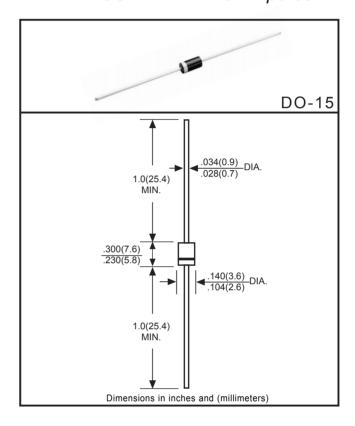
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.38 gram

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, derate current by 20%.



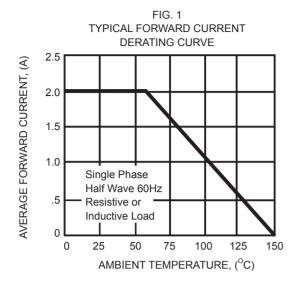
		SYMBOL	RL251	RL252	RL253	RL254	RL255	RL256	RL257	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375" (9.5mm) lead length at TA = 55°C		lo	2.5						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150							Amps
Maximum Instantaneous Forward Voltage at 2.5A DC		VF	1.1						Volts	
)TJ = 25°C	l _R	5.0 500							μ A mps
DC Blocking Voltage	TJ = 125°C	111								
Typical Junction Capacitance (Note 1)		CJ	20						pF	
Typical Thermal Resistance (Note 2)		RθJA	40						°C/W	
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150						°C	

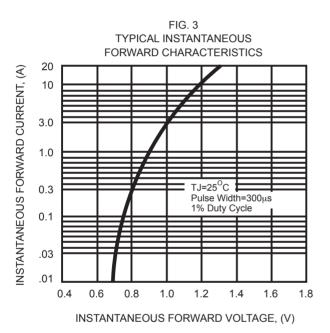
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

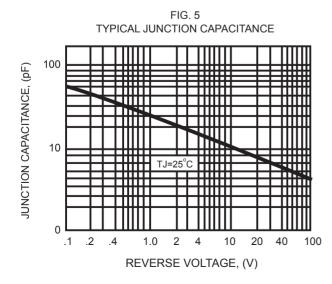
Note 2 :Typical thermal resistsnce from junction to ambient.

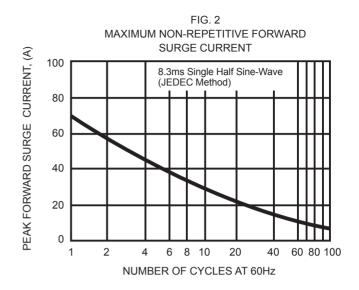
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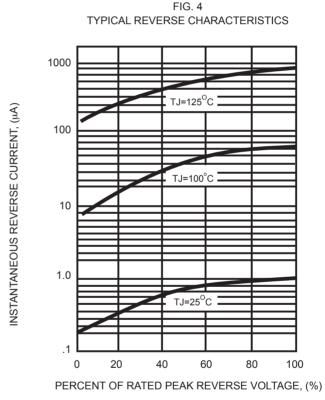
RATING AND CHARACTERISTIC CURVES (RL201 THRU RL207)











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