

RL201 THRU RL207

SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

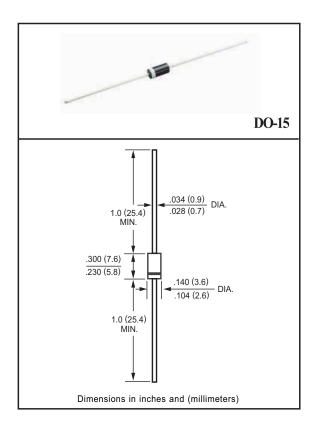
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

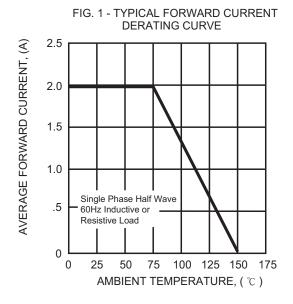
RATINGS	SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	2.0					Amps		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	70					Amps		
Typical Current Squarad Time	l ² t	20.33					A ² /Sec		
Typical Junction Capacitance (Note)	Cı	20				pF			
Typical Thermal Resistance	RθJA	40					°C/W		
Operating and Storage Temperature Range	Тл, Тэтс			-	55 to + 15	0			٥C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS	
Maximum Instantaneous Forward Voltage at 2	VF	1.0							Volts	
Maximum DC Reverse Current					1.0				uAmps	
at Rated DC Blocking Voltage	@Ta = 150°C					2.0				mAmps
Maximum Full Load Reverse Current Average	- IR				30				uAmps	
.375" (9.5mm) lead length at TL = 75°C									u, unips	

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

RATING AND CHARACTERISTIC CURVES (RL201 THRU RL207)



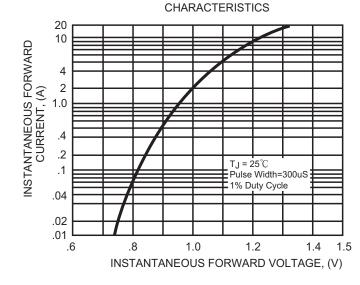
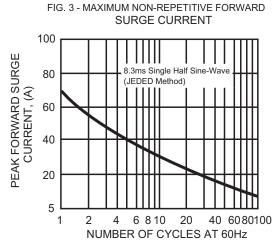
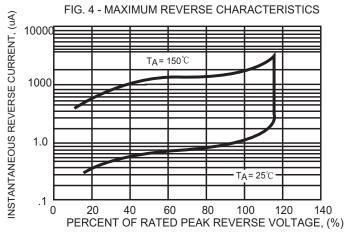
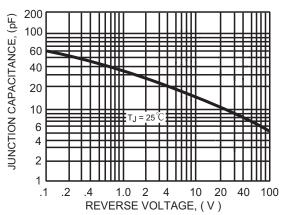


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD











AXIAL LEAD TAPING SPECIFICATIONS FOR RECTIFIERS

Axial lead devices are packed in accordance with EIA standard RS-296-D and specifications given below.

COMPNENT	COMPONENT PITCH A	INNER TAPE PITCH B		CUMULATIVE PITCH
OUTLINE	± 0.5mm (.020")	± 0.5mm (.020")	±1.5mm (.059")	TOLERANCE
T-1	5.0mm	26.0mm		2.0mm/20pitch
R-1	5.0mm	26.0mm		2.0mm/20pitch
A-405	5.0mm	26.0mm		2.0mm/20pitch
A-405	5.0mm		52.4mm	2.0mm/20pitch
DO-41	5.0mm	26.0mm		2.0mm/20pitch
DO-41	5.0mm		52.4mm	2.0mm/10pitch
DO-15	5.0mm		52.4mm	2.0mm/10pitch
R-3	5.0mm		52.4mm	2.0mm/10pitch
DO-201AD	10.0mm		52.4mm	2.0mm/10pitch
R-6	10.0mm		52.4mm	2.0mm/10pitch

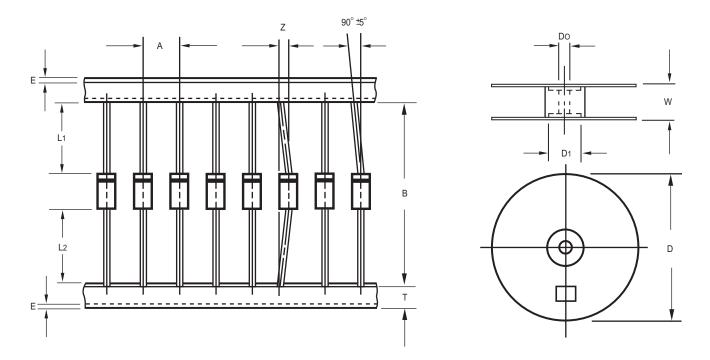


Fig.: Configuration of AXIAL LEAD TAPING

ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Component alignment	Z	1.2 Max.	0.047 Max.
Tape width	T	6.0± 0.4	0.236± 0.016
Exposed adhesive	E	0.8 Max.	0.032 Max.
Body eccentricity	IL1-L2I	1.0 Max.	0.039 Max.
Reel outside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7± 0.3	3.374± 0.012
Feed hole diameter	Do	30.5± 0.4	1.201± 0.016
Reel width	W	79.0± 1.0	3.110± 0.039

Notes: 1.Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126").

2.The reel width "W" for 26mm taping is 50.0 ± 1.0 mm (1.97" $\pm~0.040$ ").

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	ACKING CODE EA PER BOX INNER BOX SIZE CARTON SIZE (mm) EA		EA PER CARTON	GROSS WEIGHT(Kg)	
DO-15	-B	500	194*84*21	415*220*255	25,000	12.74

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-T	4,000	4,000	5.0	52	330	355*350*335	16,000	10.05

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-15	-F	1,500	5.0	52	255*73*100	400*268*225	15,000	8.8



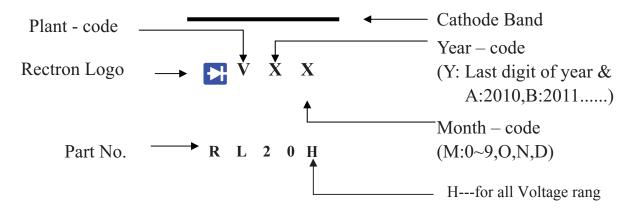


Attachment information about RL20X

1. Internal Circuit



2. Marking on the body



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