

RL201 THRU RL207



General Purpose Silicon Rectifiers

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Ampere

RoHS Device

Halogen Free

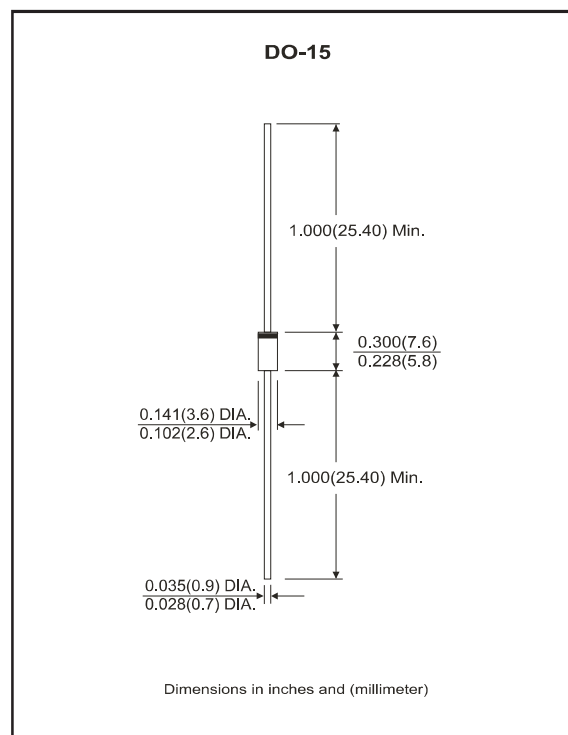


Features

- Diffused Junction.
- Low forward voltage drop.
- Low reverse leakage current.
- High current capability.

Mechanical data

- Case: JEDEC DO-15 molded plastic.
 - Epoxy: UL94V-0 rate flame retardant
 - Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.39gram



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%.

Parameter	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length @ $T_A=75^\circ\text{C}$	I_{AV}	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70							A
Maximum forward voltage at 2.0A DC	V_F	1.1							V
Maximum reverse current at rated DC blocking voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	I_R	5 50							μA
Typical junction capacitance (Note 1)	C_J	20							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	50							$^\circ\text{C/W}$
Operating temperature range	T_J	$-55 \sim +150$							$^\circ\text{C}$
Storage temperature range	T_{STG}	$-55 \sim +150$							$^\circ\text{C}$

NOTES:

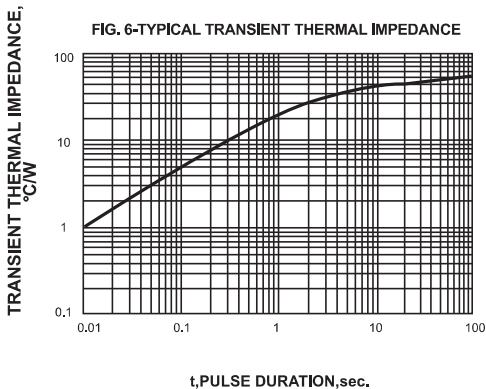
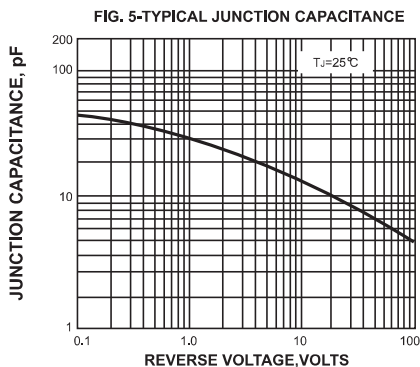
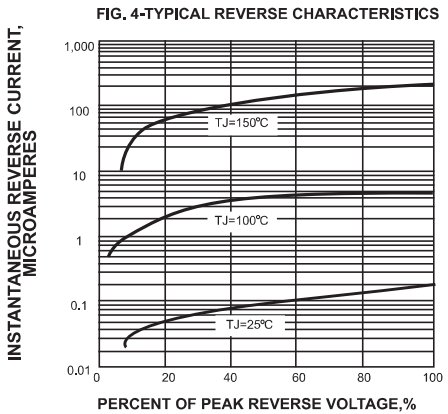
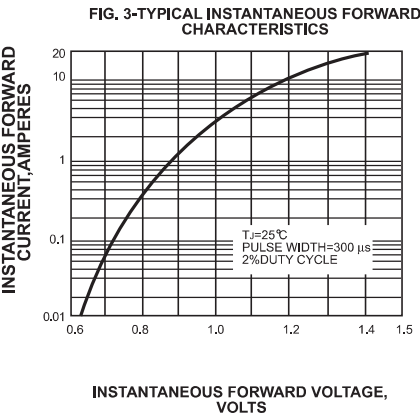
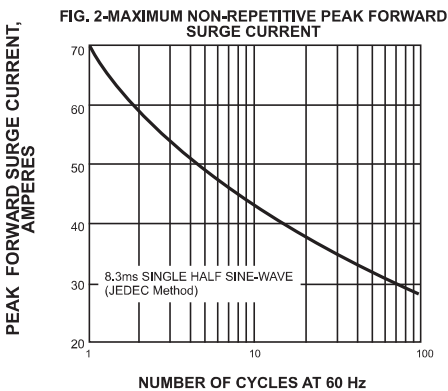
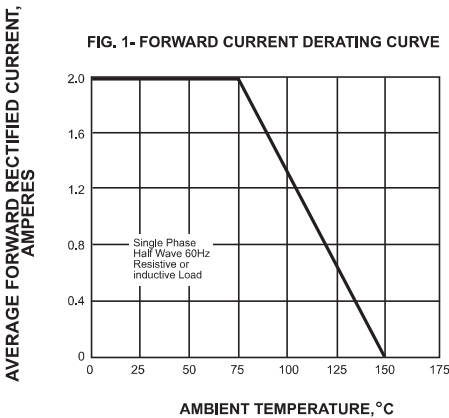
1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to ambient.

Company reserves the right to improve product design , functions and reliability without notice.

Rev:1.0

Rating and Characteristic Curves



Marking Code

Part Number	Marking code
RL201	RL201
RL202	RL202
RL203	RL203
RL204	RL204
RL205	RL205
RL206	RL206
RL207	RL207

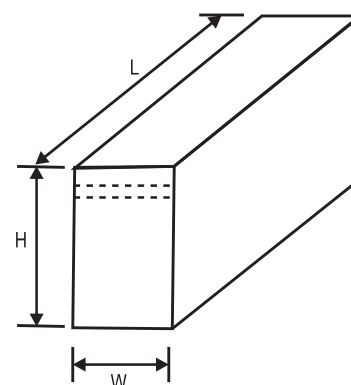
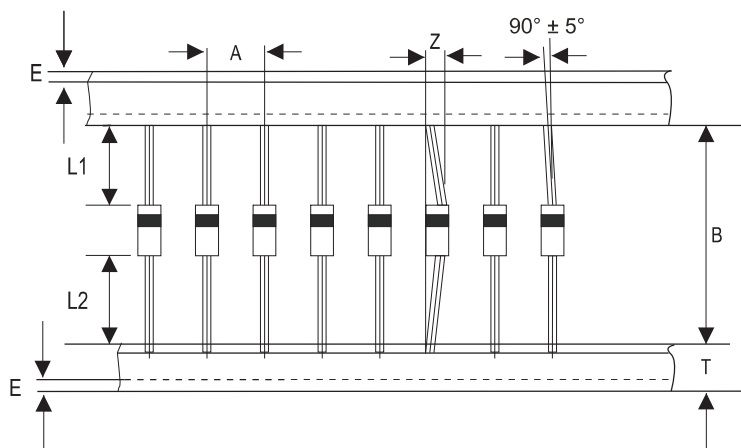


XXX = Product type marking code

Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
DO-15	3,000	30,000

Taping Specification For Axial Lead Diodes



DO-15	SYMBOL	A	B	Z	T	E	L1	L2
	(mm)	5.00 ± 0.50	52.40 ± 1.50	1.20 (max)	6.00 ± 0.40	0.80 (max)	1.00 (max)	1.00 (max)
	(inch)	0.197 ± 0.020	2.063 ± 0.059	0.047 (max)	0.236 ± 0.016	0.031 (max)	0.039 (max)	0.039 (max)

DO-15	SYMBOL	L	W	H
	(mm)	255.0 ± 5.0	78.0 ± 5.0	95.0 ± 5.0
	(inch)	10.039 ± 0.197	3.071 ± 0.197	3.740 ± 0.197

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