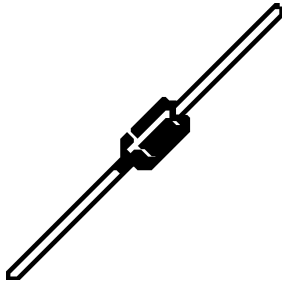


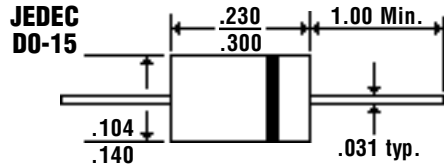
2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

RL251 . . . 257 Series

Description



Mechanical Dimensions



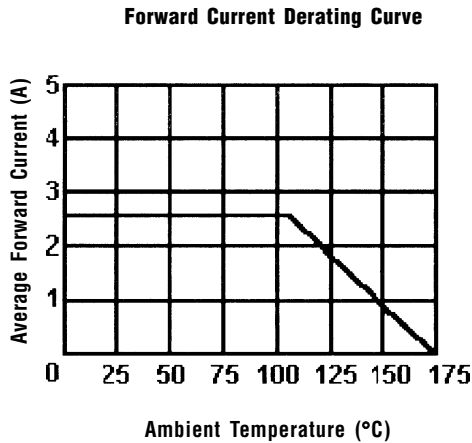
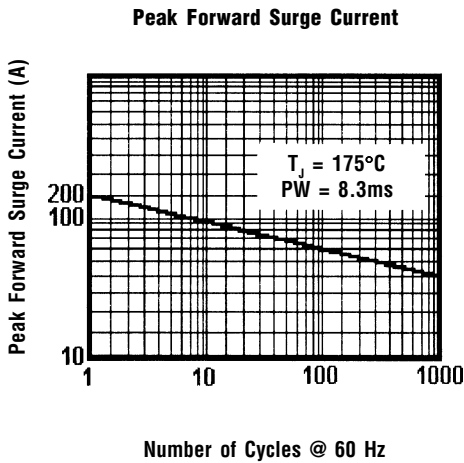
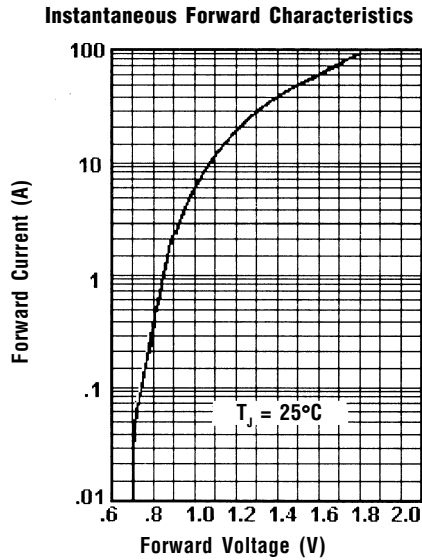
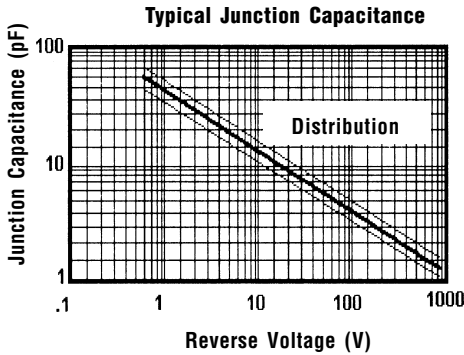
Features

- **LOW COST**
- **LOW LEAKAGE**
- **DIFFUSED JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

RL251 . . . RL257 Series								Units		
Maximum Ratings	RL251	RL252	RL253	RL254	RL255	RL256	RL257			
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts		
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts		
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts		
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 75^\circ\text{C}$ (Note 3)	.....			2.5	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	.....			150	.....			Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-65 to 175	.....			$^\circ\text{C}$
Electrical Characteristics										
Maximum Forward Voltage @ 2.5A... V_F	.....			1.1	.....			Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	25 $^\circ\text{C}$			5.0			μAmps	
	100 $^\circ\text{C}$			50			μAmps	
Typical Junction Capacitance... C_J (Note 1)	<		50 >		<		25 >	pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			28	.....			$^\circ\text{C} / \text{W}$

2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

RL251 . . . 257 Series



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 Hz
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. .375", (9.5mm) lead lengths.