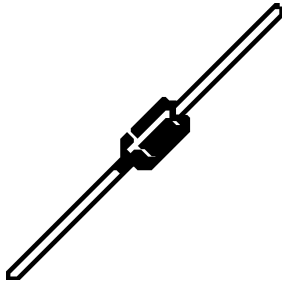


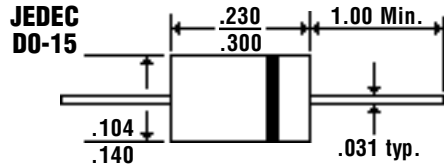
# 2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

**RL251 . . . 257 Series**

## Description



## Mechanical Dimensions



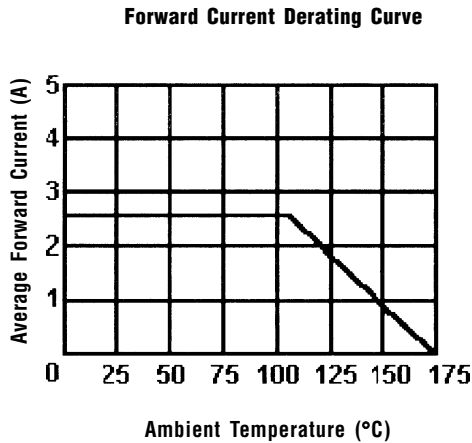
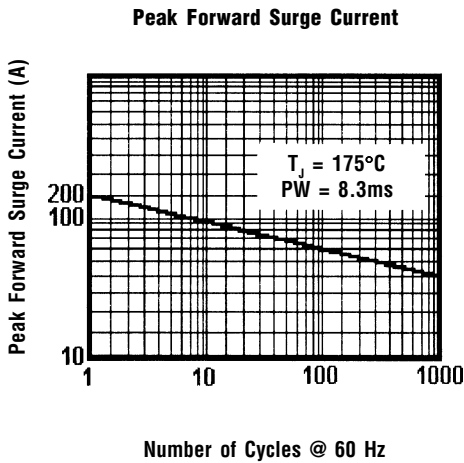
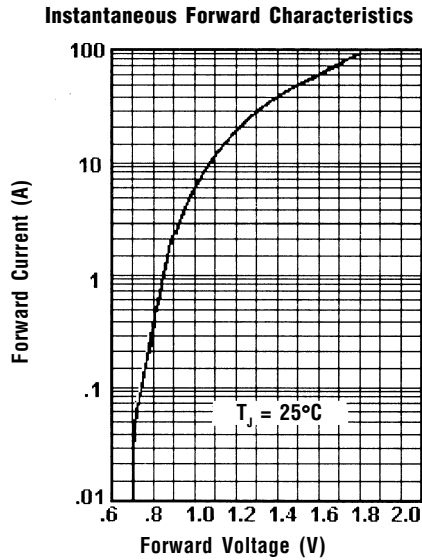
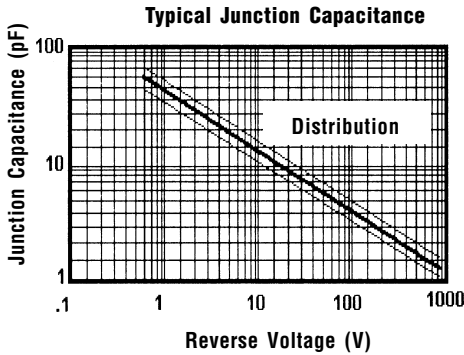
## Features

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

<b>RL251 . . . RL257 Series</b>								<b>Units</b>		
<b>Maximum Ratings</b>	<b>RL251</b>	<b>RL252</b>	<b>RL253</b>	<b>RL254</b>	<b>RL255</b>	<b>RL256</b>	<b>RL257</b>			
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	.....			$^\circ\text{C}$		
<b>Electrical Characteristics</b>										
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	.....			$\mu\text{Amps}$	
	100 $^\circ\text{C}$	.....			50	.....			$\mu\text{Amps}$	
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.