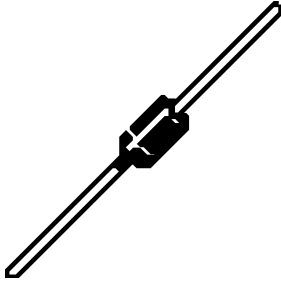


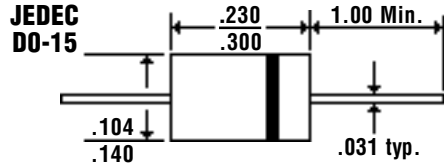
# 2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

**RL251 . . . 257 Series**

## Description



## Mechanical Dimensions



## Features

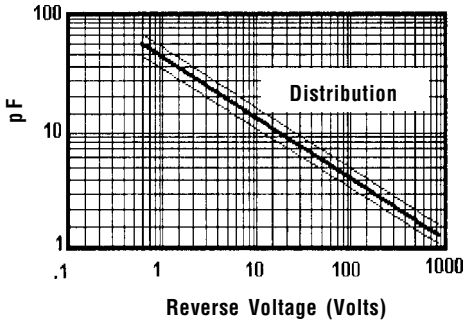
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	<i>RL251 . . . RL257 Series</i>							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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)	.....			2.5	.....			Amps		
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	.....			200	.....			Amps		
Forward Voltage @ 3.0A... $V_F$	.....			1.0	.....			Volts		
DC Reverse Current... $I_R$ @ 25°C @ Rated DC Blocking Voltage @ 75°C	.....			1.0	.....			$\mu\text{Amps}$		
	.....			100	.....			$\mu\text{Amps}$		
Typical Junction Capacitance... $C_j$ (Note 1)	< .....		50	..... >		< .....		25	..... >	pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)	.....			28	.....			°C / W		
Operating & Storage Temperature Range... $T_J, T_{STRG}$	.....			-65 to 175	.....			°C		

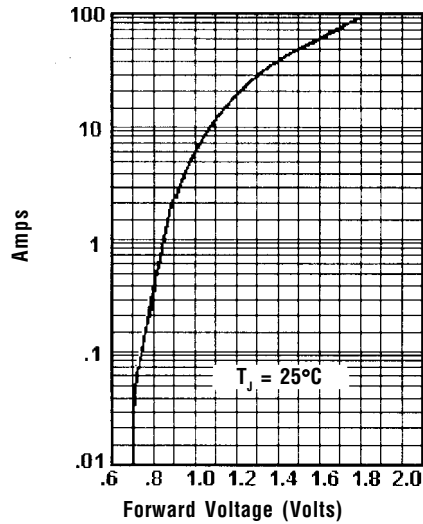
# 2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

**RL251 . . . 257 Series**

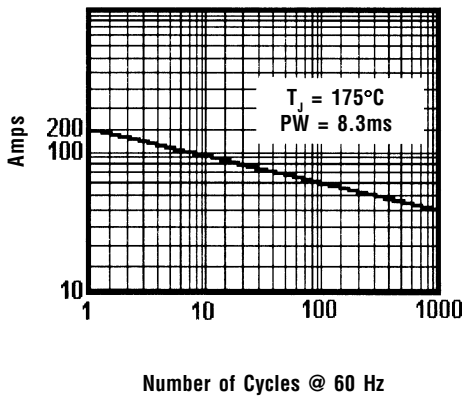
**Typical Junction Capacitance**



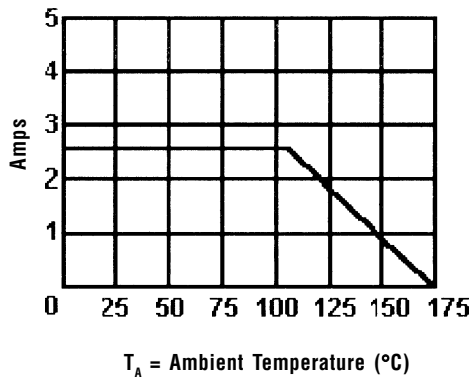
**Instantaneous Forward Characteristics**



**Peak Forward Surge Current**



**Forward Current Derating Curve**



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. When Mounted to heat sink, from body.