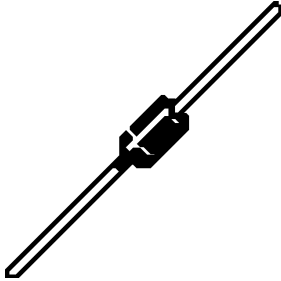


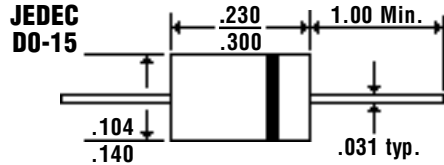
2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

RL251 . . . 257 Series

Description



Mechanical Dimensions



Features

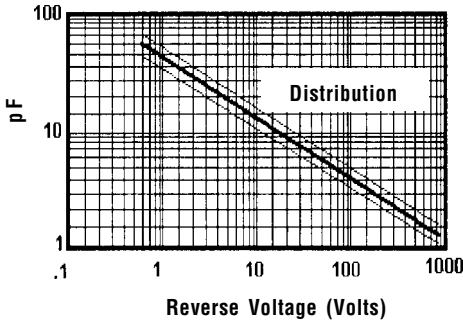
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (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				μAmps	
				100				μAmps	
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	

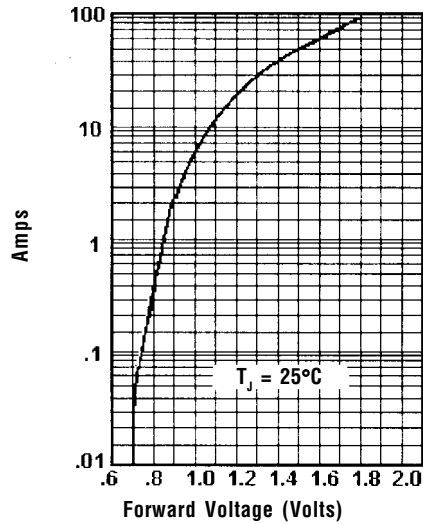
2.5 Amp MINIATURE PLASTIC SILICON RECTIFIERS

RL251 . . . 257 Series

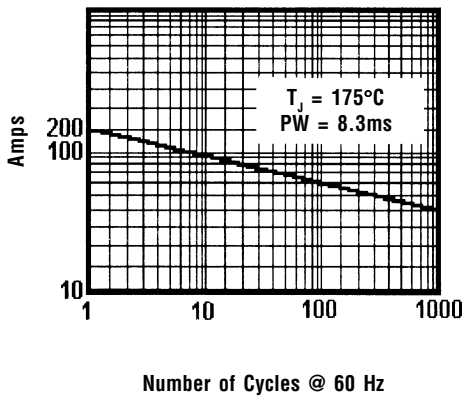
Typical Junction Capacitance



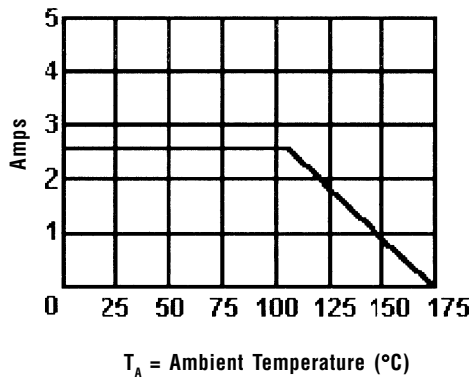
Instantaneous Forward Characteristics



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.