## 山东迪一电子科技有限公司



### RL251 - RL257

#### 2.5A SILICON RECTIFIER

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

#### **Mechanical Data**

Case: Molded Plastic

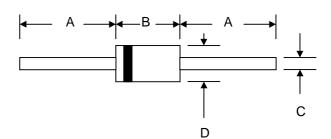
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208
Polarity: Cathode Band

• Weight: 0.40 grams (approx.)

Mounting Position: Any

Marking: Type Number



DO-15							
Dim	Min	Max					
Α	25.4	_					
В	5.50	7.62					
С	0.71	0.864					
D	2.60	3.60					
All Dimensions in mm							

#### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	RL251	RL252	RL253	RL254	RL255	RL256	RL257	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 75°C	lo	2.5					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	70					А		
Forward Voltage @I <sub>F</sub> = 2.0A	VFM	1.0					V		
	lкм	5.0 50					μΑ		
Typical Junction Capacitance (Note 2)	Cj	20					pF		
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA				40				K/W
Operating Temperature Range	Tj	-65 to +150					°C		
Storage Temperature Range	Тѕтс	-65 to +150					°C		

#### \*Glass passivated forms are available upon request

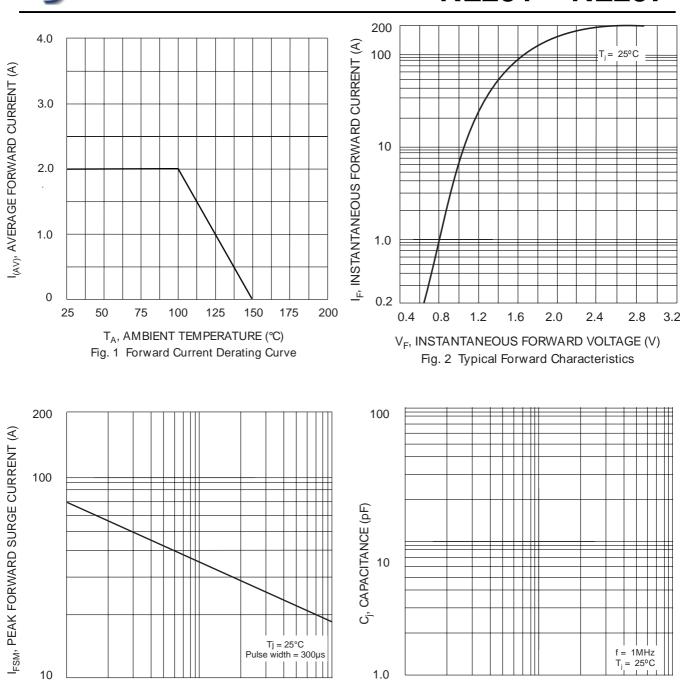
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

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NUMBER OF CYCLES AT 60Hz Fig. 3 Maximum Non-Repetitive Surge Current

10

V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

10

1.0

100

1.0

100