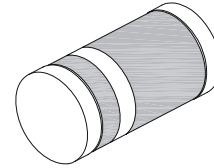


### 1.0A Surface Mount Fast Recovery Rectifier

#### Features

- Glass passivated junction
- Plastic package has underwriters laboratory flammability classification 94V-0
- High temperature soldering: 250 °C / 10 seconds at terminals
- RoHS compliant



MELF



#### Mechanical Data

<b>Case:</b>	Molded plastic body
<b>Terminals:</b>	Solder plated solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	cathode end indicated by color band
<b>Weight:</b>	0.15 grams

#### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	RGL 41A	RGL 41B	RGL 41D	RGL 41G	RGL 41J	RGL 41K	RGL 41M	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>AV</sub></b>	Maximum Average Forward Rectified Current	1.0							A	TL=50°C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

**Note:** Single phase half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

# 1.0A Surface Mount Fast Recovery Rectifier

## RGL41A-RGL41M

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	RGL 41A	R GL 41B	R GL 41D	R GL 41G	R GL 41J	R GL 41K	R GL 41M	Unit	Conditions
$V_F$	Maximum Instantaneous Forward Voltage	1.3							V	$I_F$ at 1.0 A
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							$\mu A$	$T_A = 25^{\circ}C$
		250								$T_A = 100^{\circ}C$
$t_{rr}$	Typical Reverse Recovery Time	150			250	500		nS	$I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A$	
$C_J$	Typical Junction Capacitance	15							pf	Measured at 1.0 MHz and Applied $V_r = 4.0$ volts.
$R_{\theta-JA}$	Maximum Thermal Resistance	80							$^{\circ}C/W$	
$T_J, T_{STG}$	Operating Junction and Storage Temperature Range	-55 to 125							$^{\circ}C$	

**Note:** Single phase half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

### Typical Characteristics Curves

Fig. 1 Forward Derating Curve

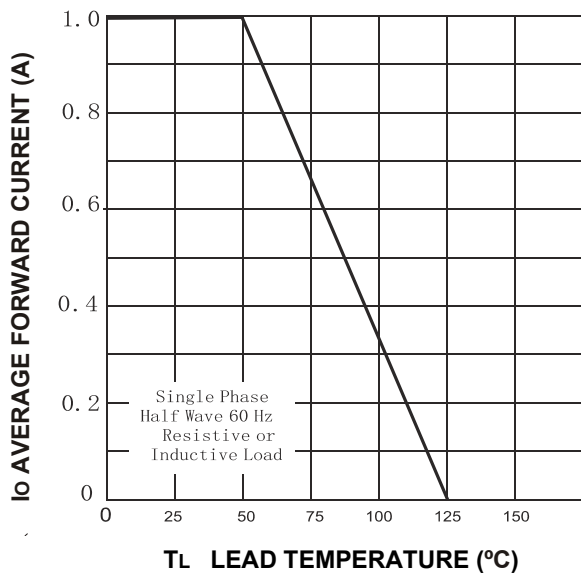
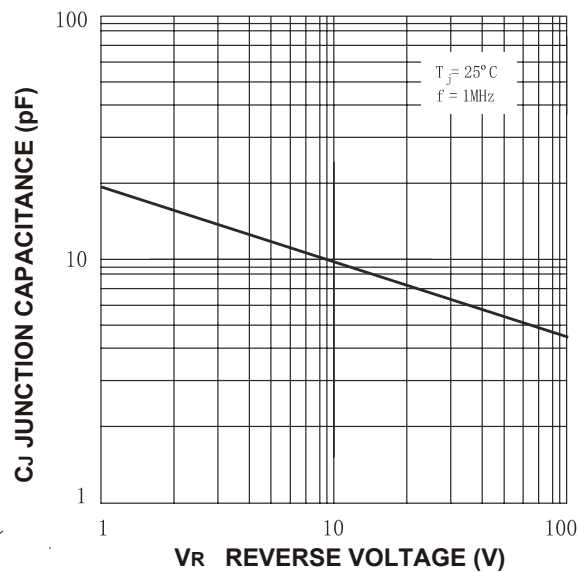
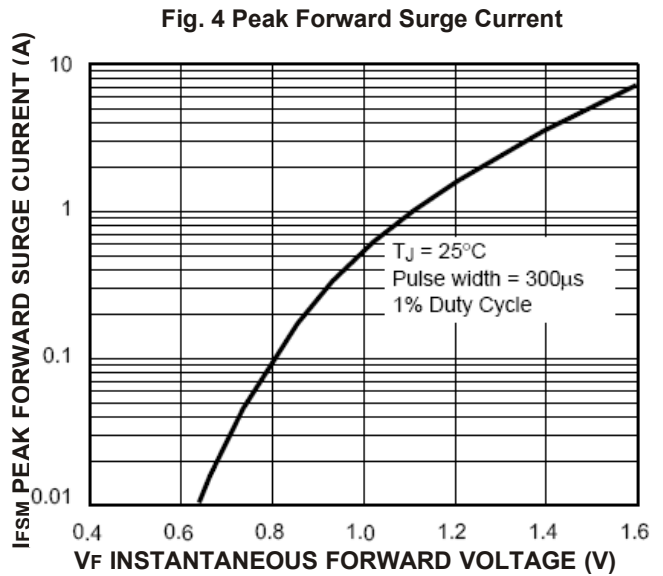
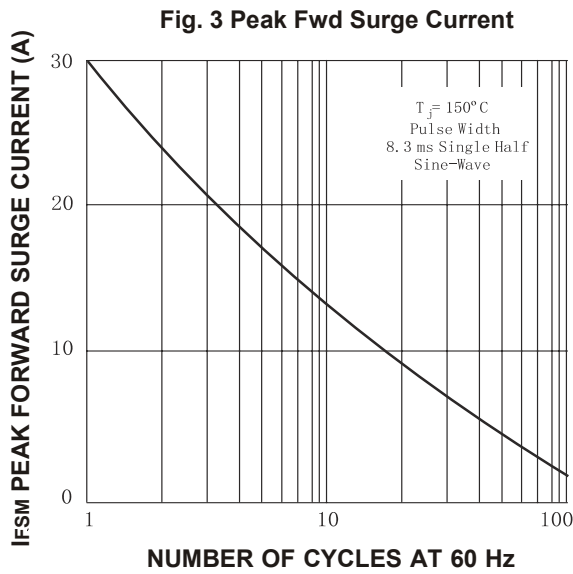


Fig. 2 Junction Capacitance vs Reverse Voltage



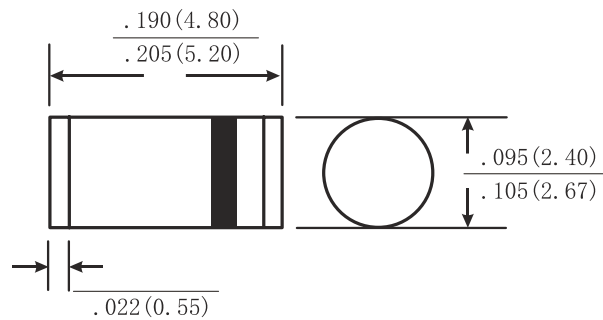
# 1.0A Surface Mount Fast Recovery Rectifier

## RGL41A-RGL41M



### Dimensions in inch (mm)

#### MELF



# 1.0A Surface Mount Fast Recovery Rectifier

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RGL41A-RGL41M

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