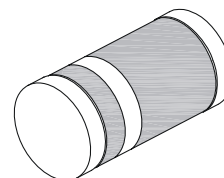


1.0A Surface Mount Fast Recovery Rectifier

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

Case:	Molded plastic body
Terminals:	Solder plated solderable per MIL-STD-750, Method 2026
Polarity:	cathode end indicated by color band
Weight:	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
VRRM	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{AV}	Maximum Average Forward Rectified Current	1.0							A	TL=50°C
I_{FSM}	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	RGL 41B	RGL 41D	RGL 41G	RGL 41J	RGL 41K	RGL 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							μA	$T_A = 25^{\circ}C$
		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

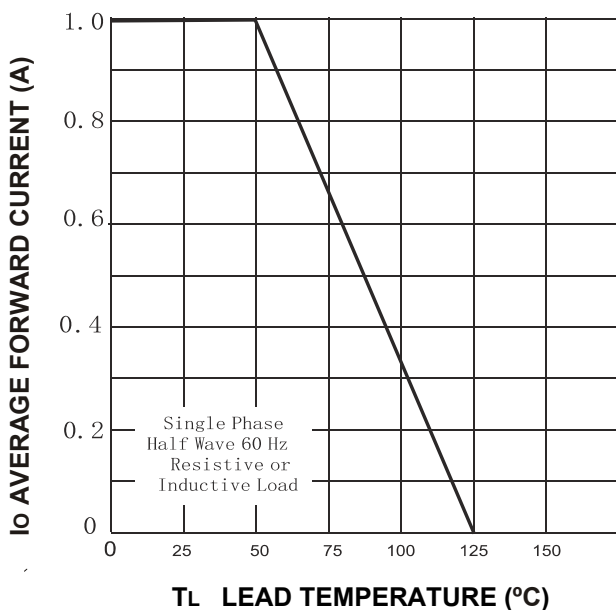
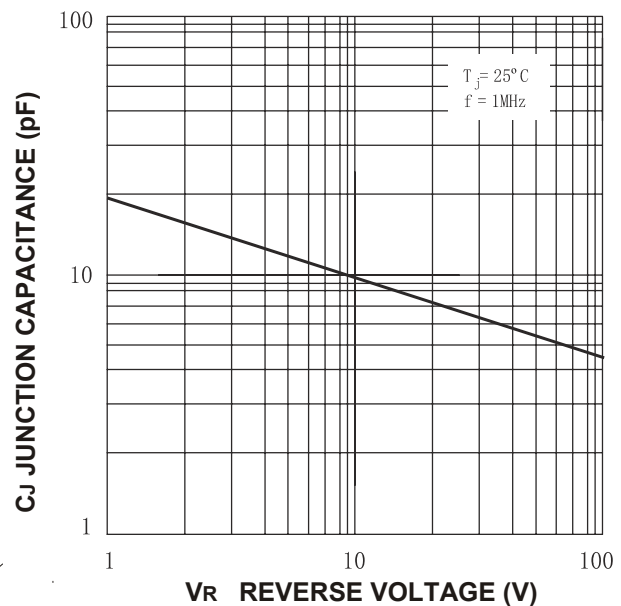
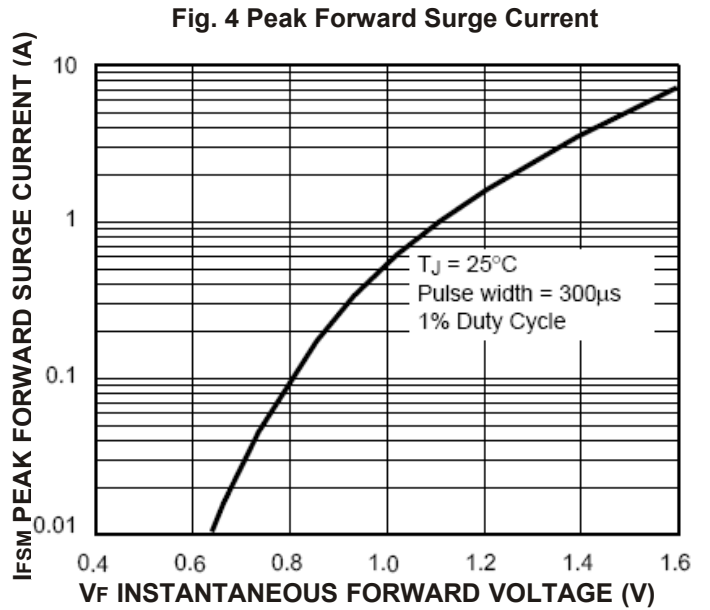
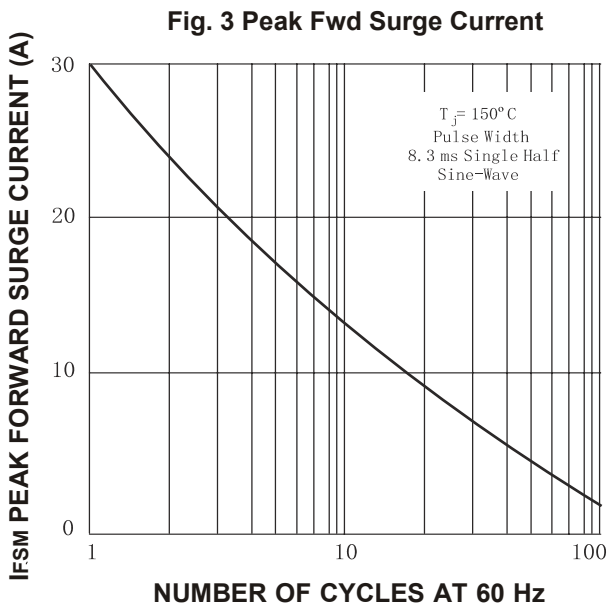


Fig. 2 Junction Capacitance vs Reverse Voltage



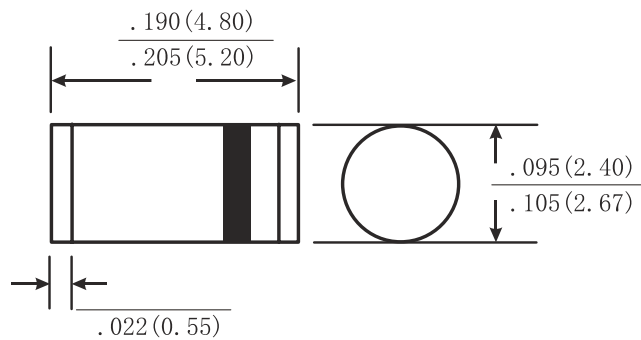
1.0A Surface Mount Fast Recovery Rectifier

RGL41A-RGL41M



Dimensions in inch (mm)

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1.0A Surface Mount Fast Recovery Rectifier

RGL41A-RGL41M

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