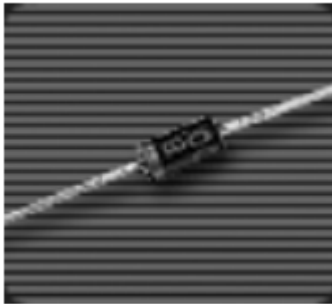


A-405

Features

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020
LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874


Primary characteristics

$I_{F(AV)}$	1A
V_{RRM}	50V to 1000V
I_{FSM}	30A
I_{RM}	5 μ A
V_{FM} at $I_F=1A$	1.3V
T_J max.	150 °C

Applications

Ideal for ac-to-dc bridge full wave rectification such as SMPS, home appliances, office equipment, industrial automation applications

Mechanical data

- A-405
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque: 10cm \cdot kg (8.8 inches \cdot lbs) max.
- Recommended Torque: 5.7 cm \cdot kg (5 inches \cdot lbs)

Maximum rating (Ta=25°C unless otherwise noted)

Parameter	Sym	A-405							Unit
		LF1	LF2	LF3	LF4	LF5	LF6	LF7	
Max. repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage	V_{RMS}	35	70	140	280	420	560	700	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. average forward current	$I_{F(AV)}$	1							A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	30							A
Max. instantaneous forward voltage drop per diode	V_{FM}	1.3 (1A)							V
Max. instantaneous reverse current at rated DC blocking voltage	I_{RM}	5							μ A
		100							
Operating junction temperature	T_J	-55 ~ +150							°C
Storage temperature	T_{STG}	-55 ~ +150							°C
Maximum reverse recovery time (Note1)	t_{rr}	150			250	500		nS	
Typical junction capacitance (Note 2)	C_J	15							pF

Notes:

1 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

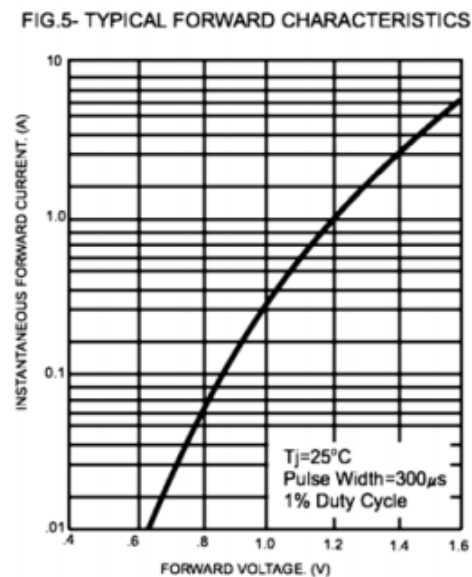
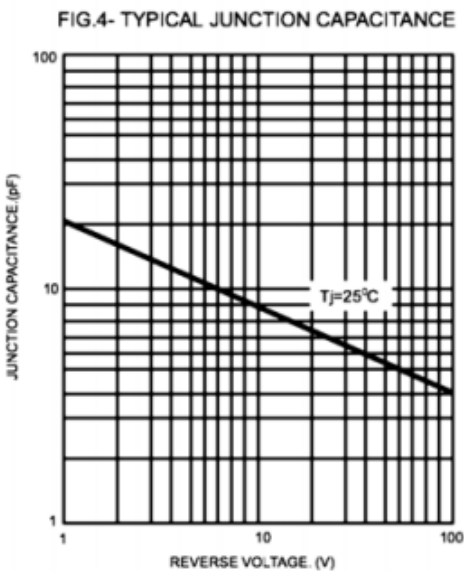
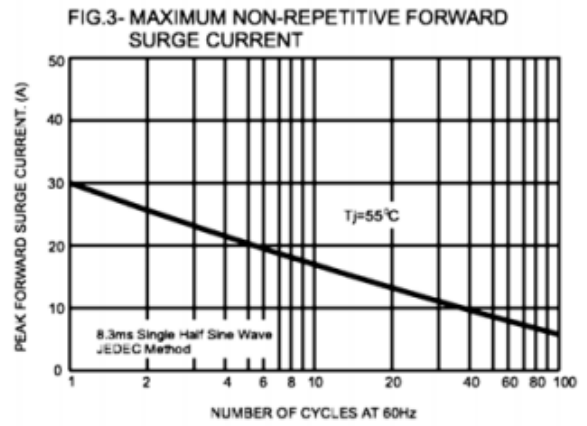
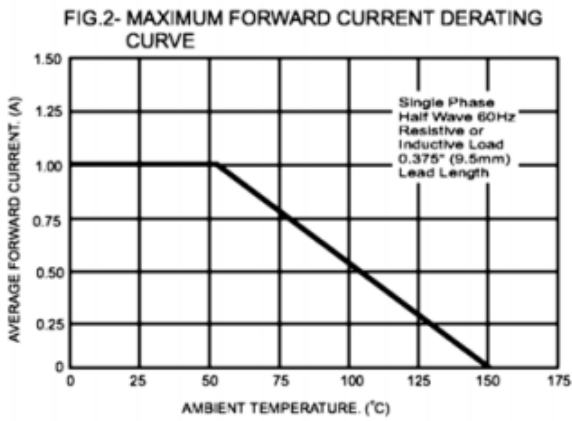
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



Ordering information (Example)

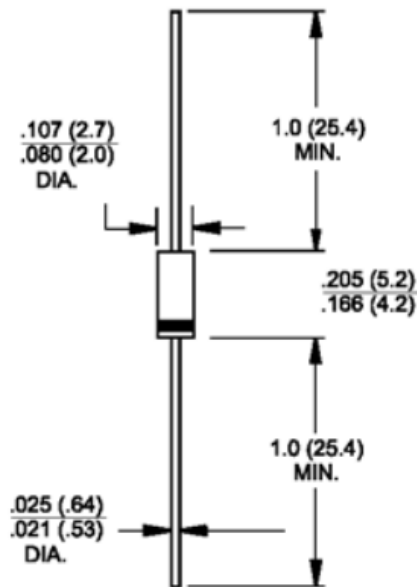
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
RL107FG				

Typical characteristics





Package outline dimensions



Dimensions in inches and (millimeters)

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