



RL101FG THRUERL107FG

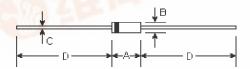
GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- Glass passivated junction
- 1.0 ampere operation at T_A=55 ℃ with no thermal runaway
- Fast switching for high efficiency

A-405



Mechanical Data

Case: Molded plastic, A-405

 Terminals: Axial leads, solderable per MIL-STD-202, method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.008 ounce, 0.235 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.165	0.205	4.2	5.2						
В	0.079	0.106	2.0	2.7	ф					
С	0.020	0.024	0.5	0.6	ф					
D	1.000	-	25.40	-						

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	RL 101FG	RL 102FG	RL 103FG	RL 104FG	RL 105FG	RL 106FG	RL 107FG	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A =55 $^{\circ}$ C	I _(AV)	1.0							Amp
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	30.0							Amps
Maximum forward voltage at 1.0A	V _F	1.30							Volts
Maximum DC reverse current at rated DC blocking voltage T _A =100 °C	I _R	5.0 100.0							μА
Maximum reverse recovery time (Note 1)	T _{rr}	150 250 500						00	nS
Typical junction capacitance (Note 2)	C _J	10.0							ρF
Typical thermal resistance (Note 3)	R _{⊕JA}	67.0						°C/W	
operating and storage temperature range	T _J , T _{STG}	-55 to +150						°	

RATINGS AND CHARACTERISTIC CURVES

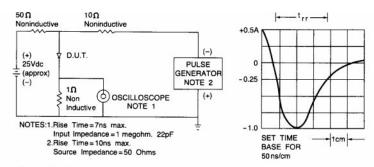


Fig. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

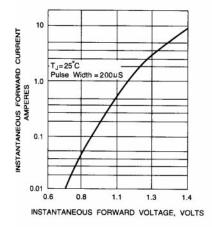
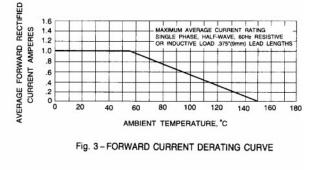


Fig. 2-FORWARD CHARACTERISTICS



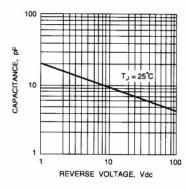


Fig. 4-TYPICAL JUNCTION CAPACITANCE

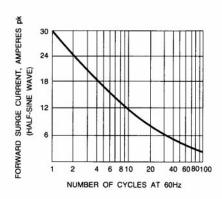


Fig. 5 - PEAK FORWARD SURGE CURRENT