

RL5400 THRU RL5408 GENERAL PURPOSE SILICON RECTIFIER

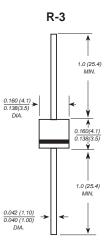
Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0Amperes

FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Construction utilizes void-free molded plastic technique Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC R-3 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.022 ounce, 0.625 grams



Dimensions in inches and (millimeters)

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 current derate by 20%.

	SYMBOLS	RL 5400	RL 5401	RL 5402	RL 5404	RL 5406	RL 5407	RL 5408	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75℃	l(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200.0						Amps	
Maximum instantaneous forward voltage at 2.5A	Vf	1.2							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lĸ	5.0 50.0						μΑ	
Typical junction capacitance (NOTE 1)	CJ		5	0.0			35.0		рF
Typical thermal resistance (NOTE 2)	Reja	15.0						°C/W	
Operating junction and storage temperature range	Тј,Тѕтс	-55 to +155						°C	

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES RL5400 THRU RL5408

FIG. 1 - FORWARD CURRENT DERATING CURVE

FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

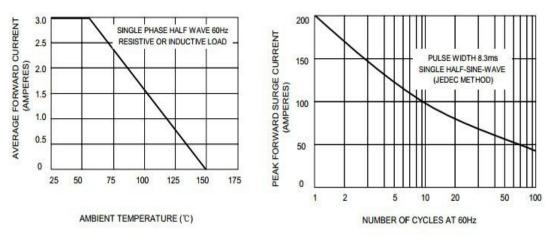
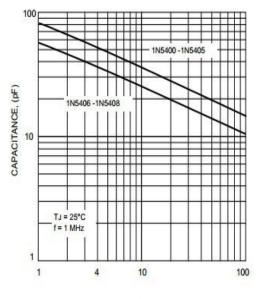
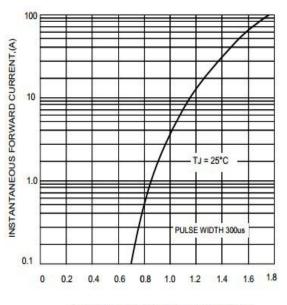


FIG.3 – TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLTS

FIG.4-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS