



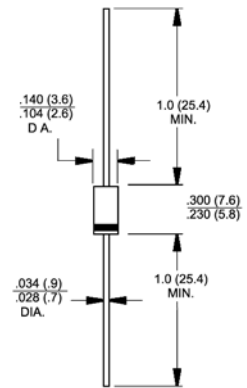
Miniature General Purpose Plastic Rectifiers
Reverse Voltage 50V~1000V, Forward Current 2.0AMP

Features

- . Diffused junction
- . Low Leakage
- . Low forward voltage drop
- . High current capability
- . Easily cleaned with Freon. Alcohol. Isopropanol and similar solvents
- . The plastic material carries U/L recognition 94V-0



DO-204AC (DO-15)



Mechanical Data

- . Case: JEDEC DO-15. molded plastic
- . Terminals: Axial leads. Solderable per MIL - STD - 202. Method 208
- . Polarity: Color band denotes cathode
- . Weight: 0.012 ounce. 0.58grams
- . Mounting position: Any

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%

	SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 50^\circ C$	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated Load	I_{FSM}	70							A
Maximum Forward Voltage at 2.0A DC	V_F	1.0							V
Maximum Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R	5.0 50.0							μA
Typical Junction Capacitance (Note 1)	C_j	20							pF
Typical Thermal Resistance (Note 2)	R_{QJA}	40							$^\circ C/W$
Operating Junction Temperature Range	T_j	-55 to 150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to 150							$^\circ C$

NOTE: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to ambient.



RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

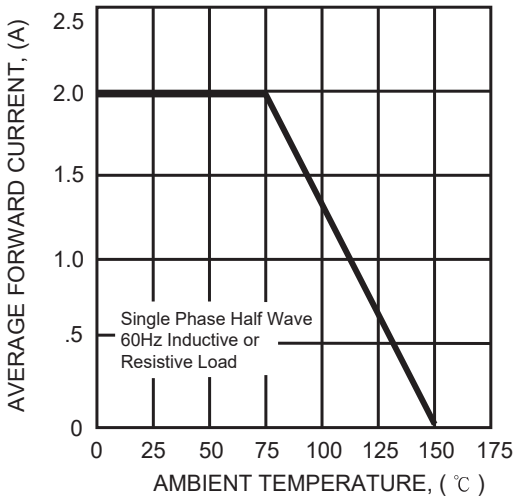


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

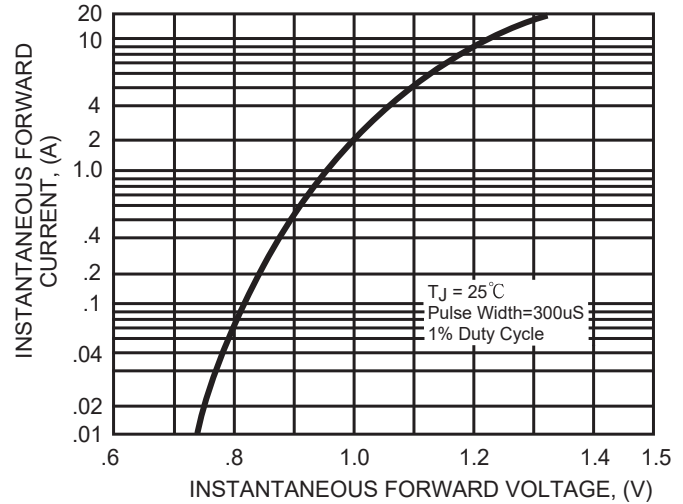


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

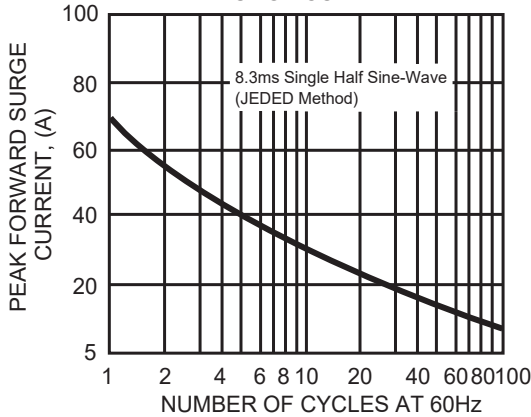


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

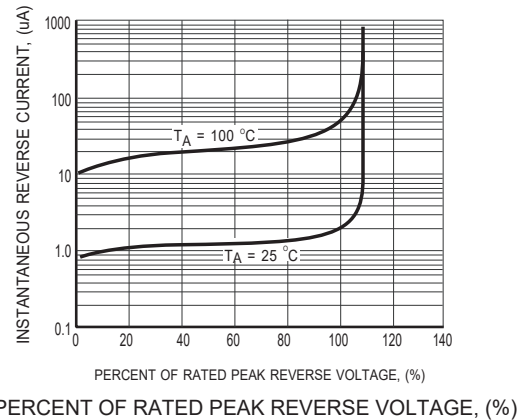


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

