

DO-15 PLASTIC SILICON RECTIFIERS

FEATURES

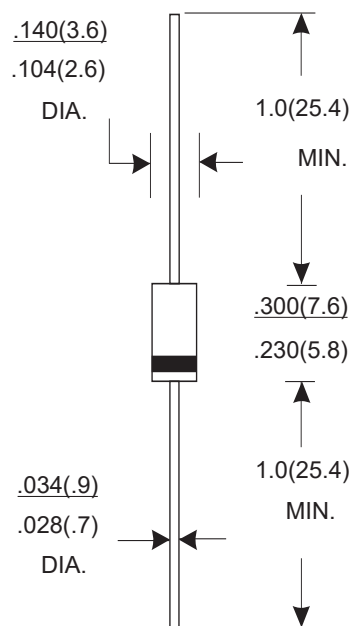
- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 2.0 ampere operation at TL=75 °C with no thermal runaway
- Low reverse leakage
- High temperature soldering guaranteed:260 °C/10 seconds

at Terminals

- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case:JEDEC DO-15 molded plastic body
- Polarity:Color band denotes cathode end
- Mounting Position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

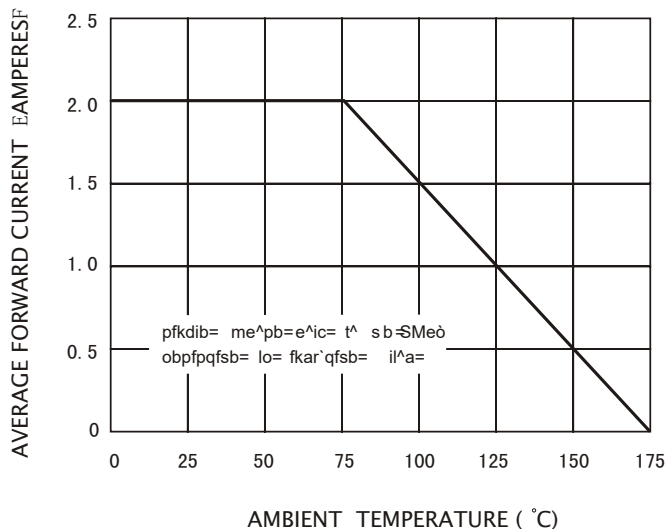
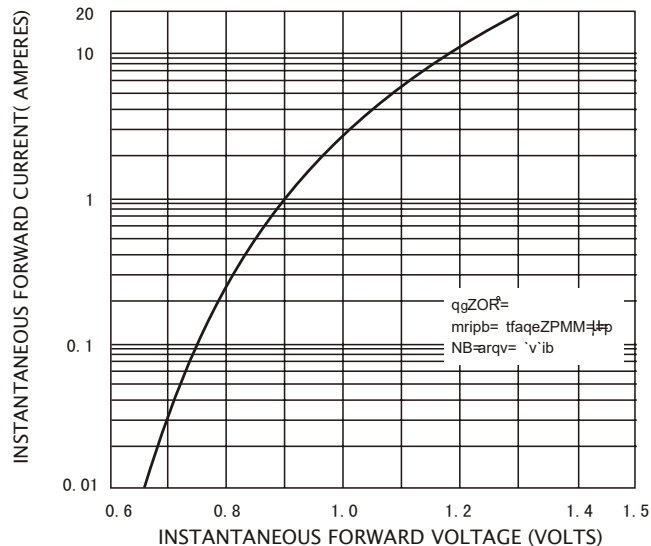
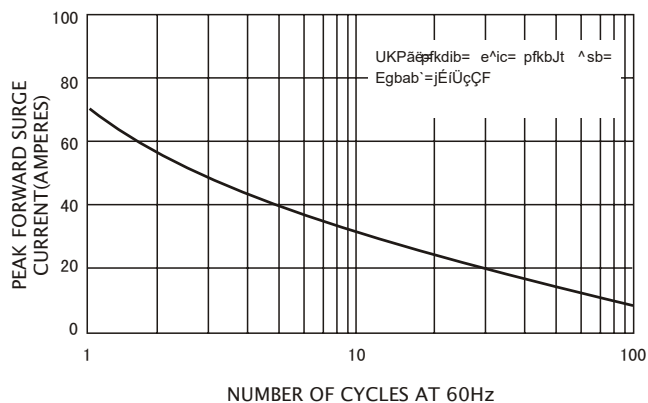
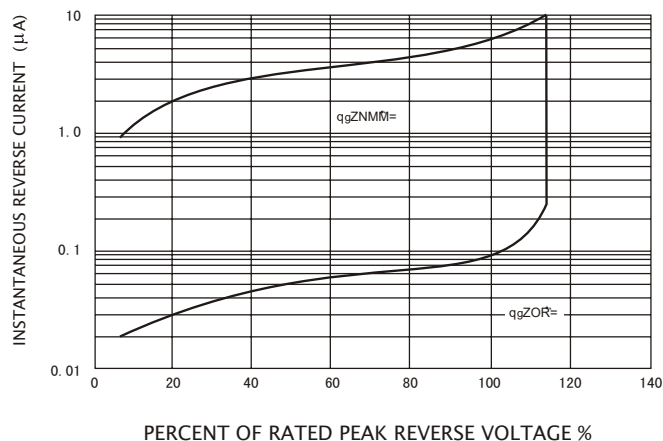
@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbols	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	300	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	300	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm)lead length at TA=75°C	I_{AV}	2.0							Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)	I_{FSM}	70.0							Amps
Maximum Instantaneous Forward Voltage at 2.0 A	V_F	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	@TA=25°C	5.0							A
	@TA=100°C								
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$	40.0							°C/W
Typical Junction Capacitance(Note 1)	C_J	20.0							PF
Operating and Storage Temperature Range	T_J	-55 to+175							°C
	T_{STG}								

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

2. Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – FORWARD DERATING CURVE

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.3 – MAXIMUM PEAK NON-REPETITIVE FORWARD SURGE CURRENT

FIG.4-TYPICAL REVERSE CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE
