

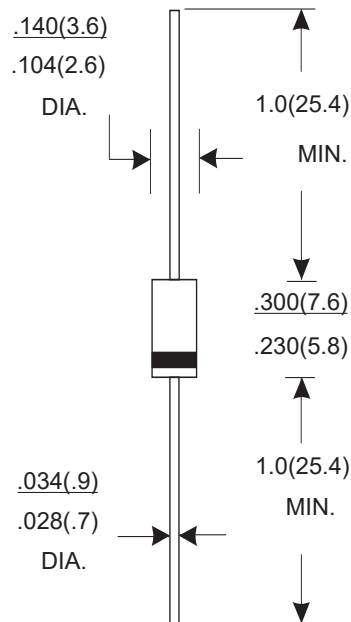
DO-15 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 1.5 ampere operation at TL=75 °C with no thermal runaway
- Low reverse leakage
- Low forward voltage drop
- Construction utilizes void-free molded plastic technique
- 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:DO-15 molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

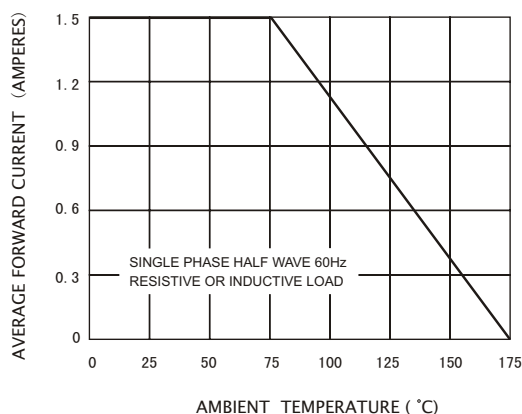
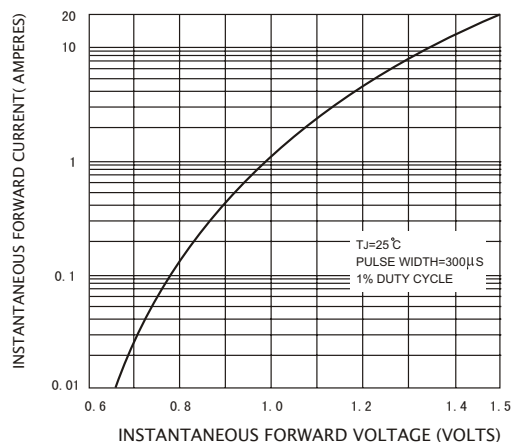
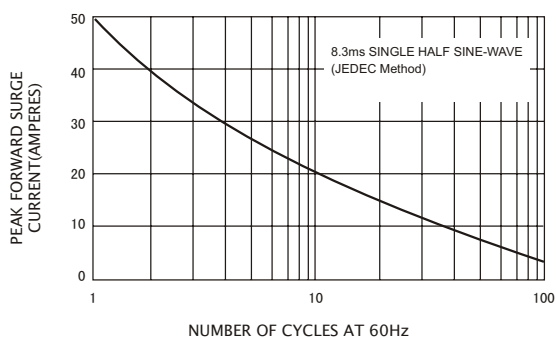
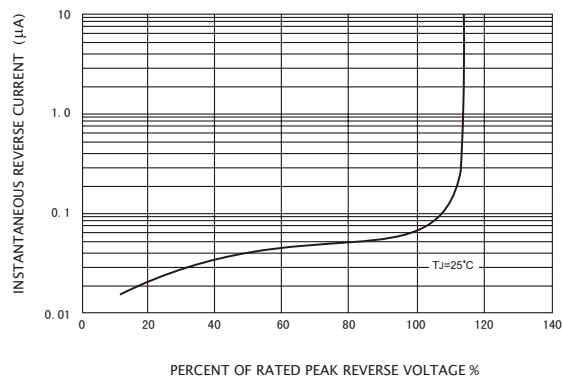
@ 25°C Ambient Temperature (unless otherwise noted)

Parameter		Symbols	RL151	RL152	RL153	RL154	RL155	RL156	RL157	Units
Maximum Recurrent 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 TA=75℃		I _(AV)	1.5							Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)		I _{FSM}	50.0							Amps
Maximum Instantaneous Forward Voltage at 1.5 A		V _F	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	T _A =25 C	I _R	5.0							A
	T _A =100 C		500.0							
Typical Thermal Resistance(Note 2)		R _{θJA}	50.0							℃/W
Typical Junction Capacitance(Note 1)		C _J	20.0							PF
Operating and Storage Temperature Range		T _J	-55 to+175							℃
		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 CURRENT DERATING CURVE

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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

FIG.4-TYPICAL REVERSE CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE
