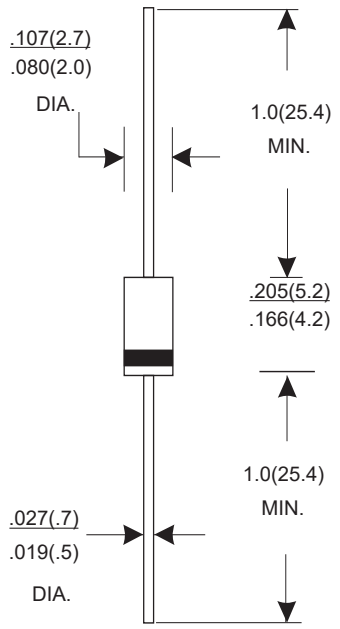
DO-41 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High reliability
- High temperature soldering guaranteed:260 ℃/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case:DO-41 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	RL101	RL102	RL103	RL104	RL105	RL106	RL107	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 Curren 0.375"(9.5mm)lead length at TA=55℃		$I_{(AV)}$	1.0							Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)		I_{FSM}	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		V_F	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	$@T_A$=25°C	I_R	5.0							UA
	$@T_A$=100°C		50							
Typical Thermal Resistance(Note 2)		$R_{\theta JA}$	50.0							°C/W
Typical Junction Capacitance(Note 1)		C_J	15.0							PF
Operating and Storage Temperature Range		T_J	-55 to+150							°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 Current Derating Curve

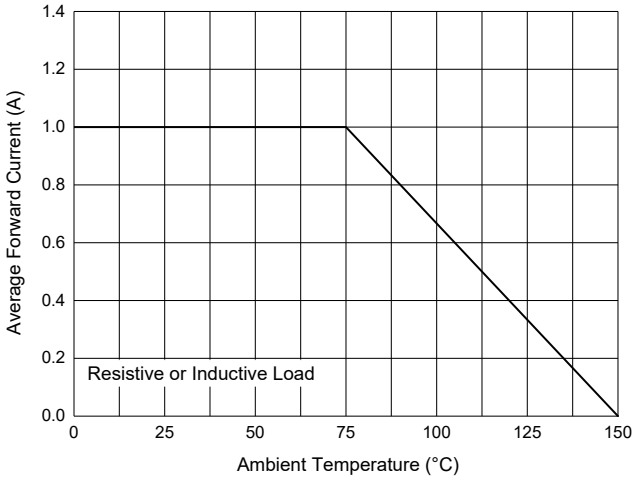


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

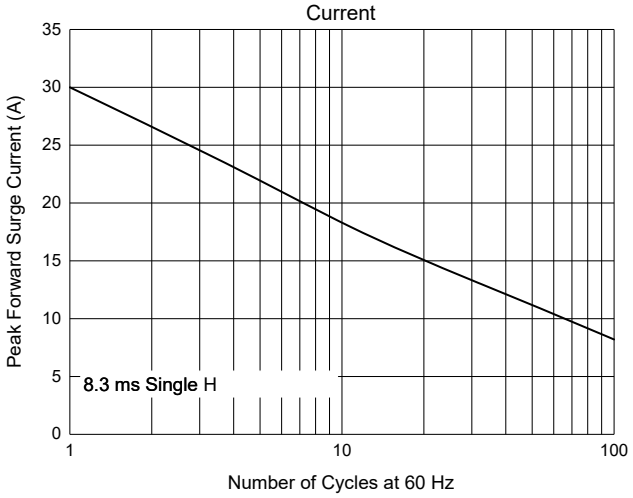


Fig. 3 - Typical Instantaneous Forward Characteristics

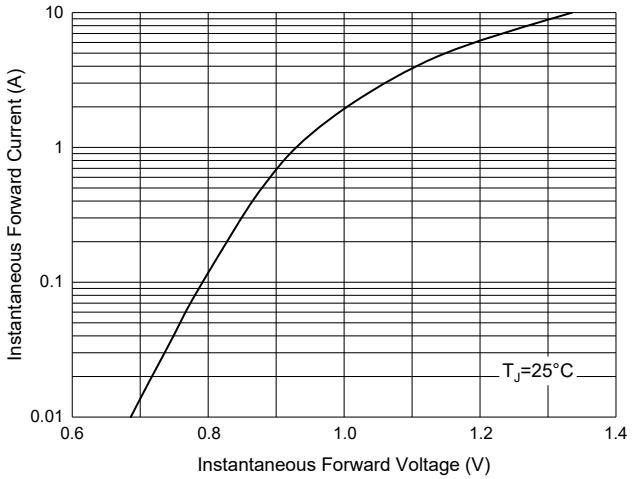


Fig. 4 - Typical Reverse Leakage Characteristics