

LL914/A/B

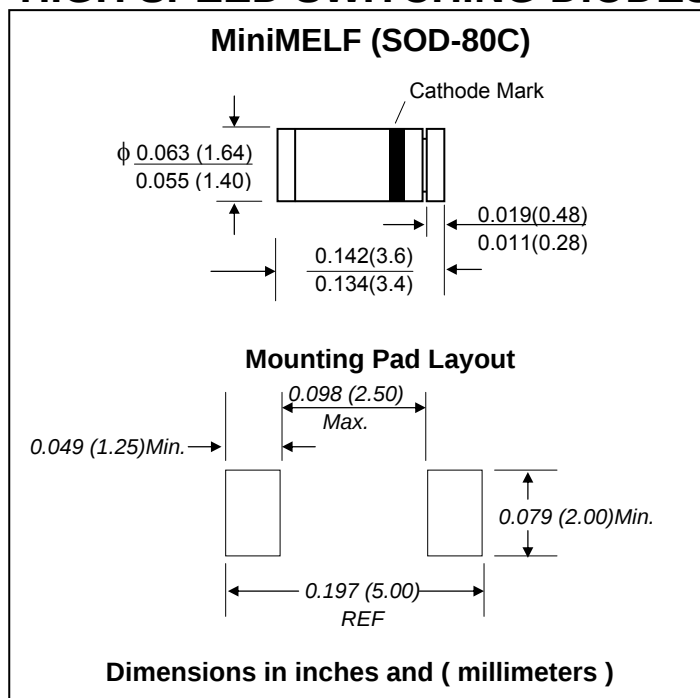
FEATURES :

- * High switching speed: max. 4 ns
- * Continuous reverse voltage: max. 75 V
- * Repetitive peak reverse voltage: max. 100 V
- * Repetitive peak forward current: max. 225 mA
- * Pb / RoHS Free

MECHANICAL DATA :

- * **Case:** MiniMELF Glass Case (SOD-80)
- * **Weight:** approx. 0.05g

HIGH SPEED SWITCHING DIODES



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum Continuous Reverse Voltage	V_{RM}	75	V
Maximum Continuous Forward Current	I_F	75	mA
Maximum Power Dissipation	P_D	250	mW
Maximum Repetitive Peak Forward Current	I_{FRM}	225	mA
Maximum Non-repetitive Peak Forward Current at $t = 1s$	I_{FSM}	0.5	A
Maximum Junction Temperature	T_J	175	°C
Storage Temperature Range	T_{STG}	-65 to + 200	°C

Electrical Characteristics ($T_J = 25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I_R	$V_R = 20 V$	-	-	25	nA
		$V_R = 20 V, T_J = 150^{\circ}C$	-	-	50	μA
Forward Voltage	V_F	$I_F = 10 mA$	-	-	1.0	V
		$I_F = 20 mA$	-	-	1.0	V
		$I_F = 5 mA$	0.62	-	0.72	V
		$I_F = 100 mA$	-	-	1.0	V
Diode Capacitance	C_d	$f = 1MHz; V_R = 0$	-	-	4.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 10 mA$ to $I_R = 60 mA$ $R_L = 100 \Omega$; measured at $I_R = 1mA$	-	-	4	ns

RATING AND CHARACTERISTIC CURVES (LL914/A/B)

FIG. 1 MAXIMUM PERMISSIBLE CONTINUOUS FORWARD CURRENT AS A FUNCTION OF AMBIENT TEMPERATURE.

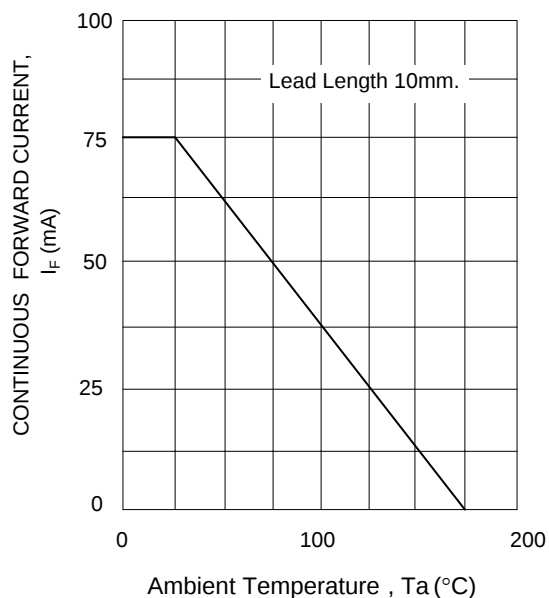


FIG. 2 TYPICAL FORWARD VOLTAGE

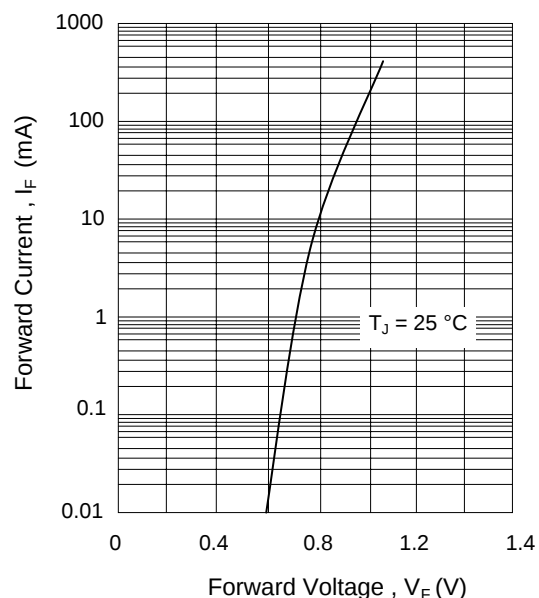


FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE

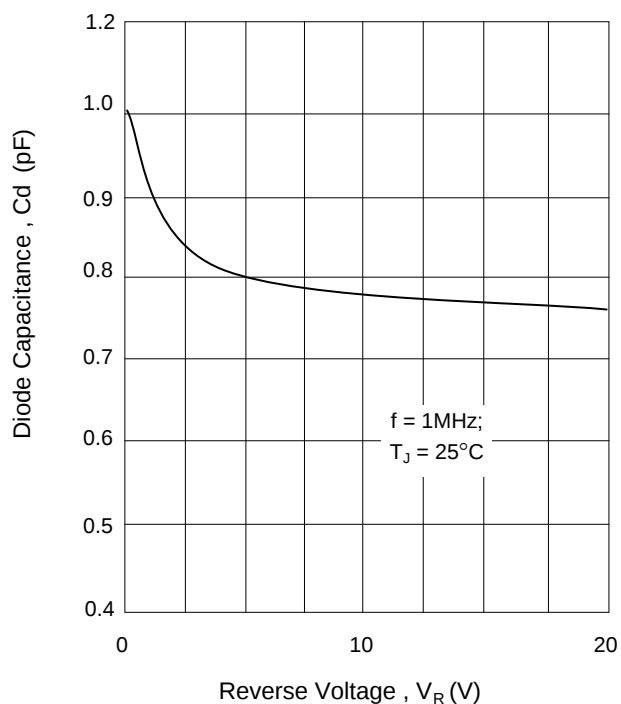


FIG. 4 TYPICAL REVERSE CURRENT VERSUS JUNCTION TEMPERATURE

