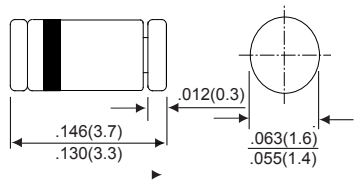
YENYO

LL103A THRU LL103C

Surface Mount Schottky Barrier Rectifier

Voltage Range 20 to 40V
Current 0.2 Ampere

SOD-80



Dimensions in inches and (millimeters)

Features

- ✶ Low forward voltage drop
- ✶ High current capability
- ✶ High reliability
- ✶ High surge current capability

Mechanical Data

- ✶ Case: Molded plastic SOD-80
- ✶ Epoxy: UL 94V-0 rate flame retardant
- ✶ Terminals: Solderable per MIL-STD-750 method 2026
- ✶ Polarity:Color band denotes cathode end
- ✶ Mounting position: Any
- ✶ Weight: 0.05 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYBMOL	LL103A	LL103B	LL103C	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	30	20	V
Maximum RMS Voltage	V_{RMS}	28	21	14	V
Maximum DC Blocking Voltage	V_{DC}	40	30	20	V
Maximum Average Forward Rectified Current T_L=100°C	$I_{(AV)}$	0.2			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	15.0			A
Maximum Instantaneous Forward Voltage @ 0.2 A	V_F	0.6			V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=100°C	I_R	5			mA
Typical junction Capacitance (Note 1)	C_J	50			pF
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125 / -55 to +150			°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATINGS AND CHARACTERISTIC CURVES LL103A THRU LL103C

FIG.1 - FORWARD CURRENT VS. FORWARD VOLTAGE

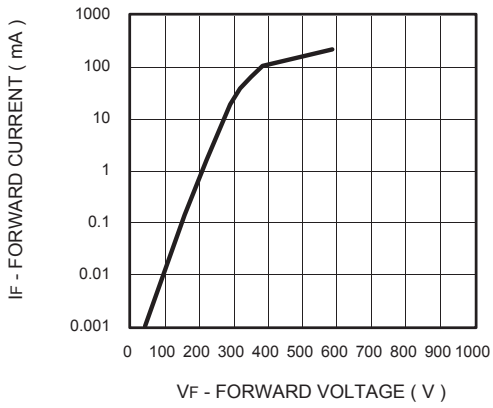


FIG.2 - FORWARD CURRENT VS. FORWARD VOLTAGE

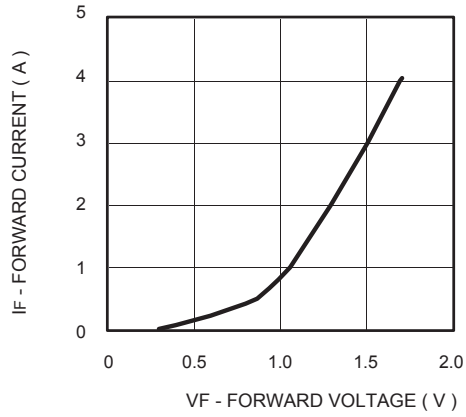


FIG.3 - REVERSE CURRENT VS. JUNCTION TEMPERATURE

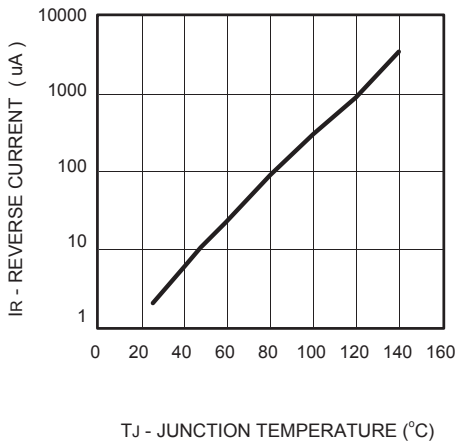


FIG.4 - DIODE CAPACITANCE VS. REVERSE VOLTAGE

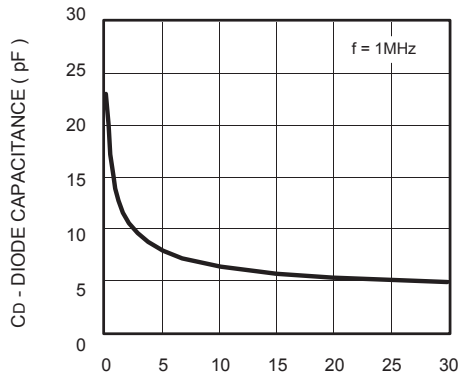
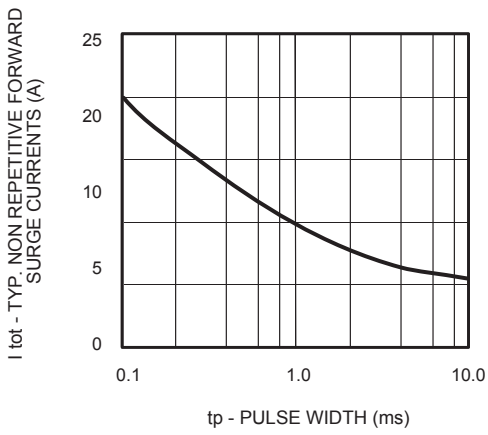


FIG.5 - TYP. NON REPETITIVE FORWARD SURGE CURRENT VS. PULSE WIDTH



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