

SD103A THUR SD103C SMALL SIGNAL SCHOTTKY DIODES

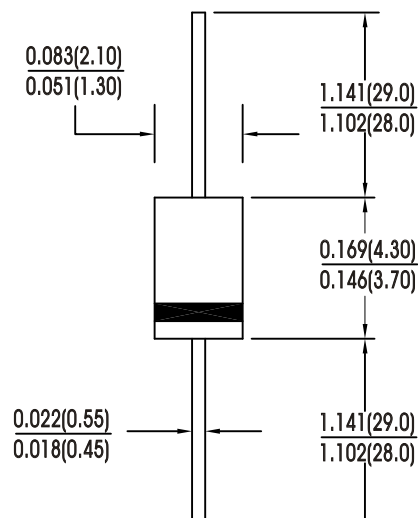
DO-35

FEATURES:

- For general purpose applications
- Low forward voltage drop
- Fast switching make It Ideal for protection MOS devices,steering,biasing,couping diodes for fast switching and low logic leven applications
- These diodes are also available in the Mini-MELF case with the type desingation LL103A to thru LL103C

MECHANICAL DATA

Case: DO-35 case
Weight:Approx. 0.13gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

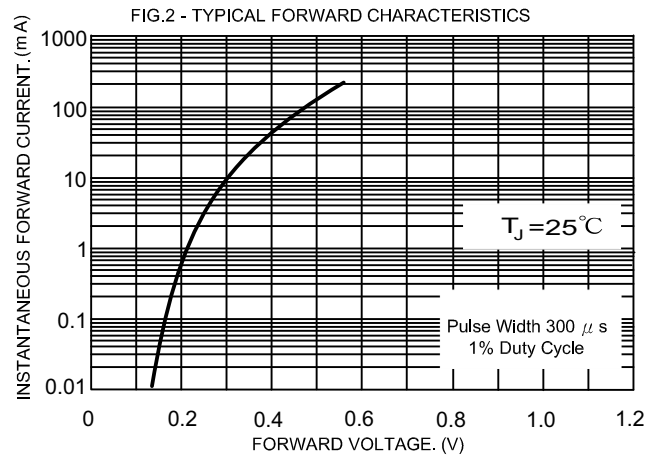
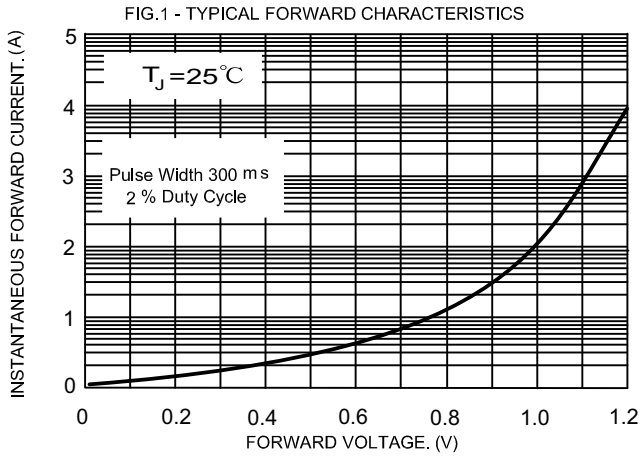
Characteristic	Symbol	SD103A	SD103B	SD103C	Units
Peak reverse voltage	V _{RRM}	40	30	20	Volts
Power Dissipation (infinite Heat Sink) (NOTE 1)	P _{tot}	400			mW
Maximum Single surge 60 hz square wave	I _{FSM}	15			Amps
Maximum Leakage current	I _R	VR=30V	5		uA
		VR=20V		5	
		VR=10V		5	
Maximum instantaneous forward voltage drop per leg at	V _F	IF=20mA		0.37	Volts
		IF=200mA		0.60	
Typical Junction Capacitance at V _R = 0 V, f=1MHZ	C _J		50		P _F
Typical Reverse recovery time (NOTE 2)	T _{RR}		10		ns
Maximum thermal resistance junction to ambient	T _{th JA}		300		K/W
Operating temperature range	T _J		-55 to +125		°C
Storage temperature range	T _{stg}		-55 to +150		°C

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature

(2) Reverse recovery condition I_F = I_R = 0.05A ,Recover to 0.2A,Recover to 0.1 I_R

RATINGS AND CHARACTERISTIC CURVES SD103A THRU SD103C



$T_J = 25^\circ\text{C}$
F = 1.0MHz
Vsig = 50mVp-p

