

# SD103A THUR SD103C SMALL SIGNAL SCHOTTKY DIODES

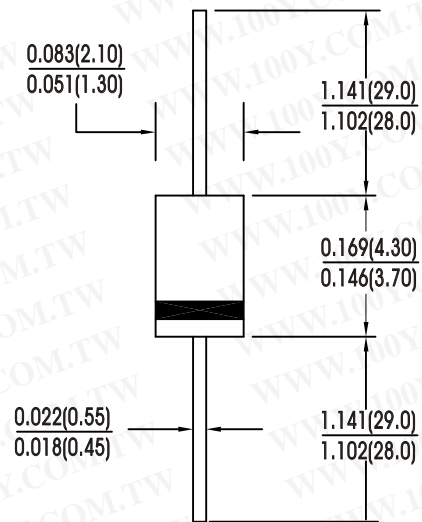
## DO-35

### 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 <sub>RRM</sub>	40	30	20	Volts
Power Dissipation ( infinite Heat Sink) (NOTE 1)	P <sub>tot</sub>		400		mW
Maximum Single surge 60 hz square wave	I <sub>FSM</sub>		15		Amps
Maximum Leakage current	I <sub>R</sub>	5			uA
			5		
				5	
Maximum instantaneous forward voltage drop per leg at	V <sub>F</sub>		0.37		Volts
			0.60		
Typical Junction Capacitance at V <sub>R</sub> = 0 V, f=1MHZ	C <sub>J</sub>		50		P <sub>F</sub>
Typical Reverse recovery time ( NOTE 2)	T <sub>RR</sub>		10		ns
Maximum thermal resistance junction to ambient	T <sub>th JA</sub>		300		K/W
Operating temperature range	T <sub>J</sub>		-55 to+125		°C
Storage temperature range	T <sub>stg</sub>		-55 to+150		°C

**NOTES:**

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

(2) Reverse recovery condition I<sub>F</sub> = I<sub>R</sub> = 0.05A ,Recover to 0.2A,Recover to 0.1 I<sub>R</sub>

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

# RATINGS AND CHARACTERISTIC CURVES SD103A THRU SD103C

FIG.1 - TYPICAL FORWARD CHARACTERISTICS

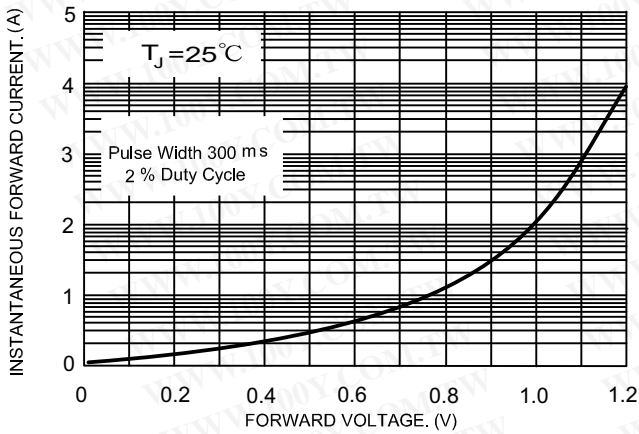
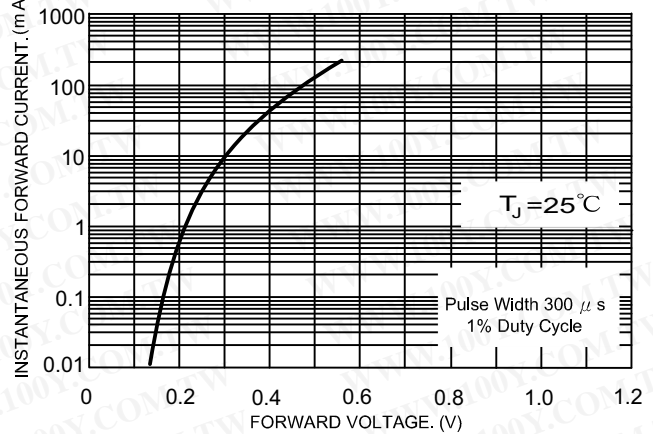


FIG.2 - TYPICAL FORWARD CHARACTERISTICS



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

FIG.3 - NON-REPETITIVE FORWARD SURGE CURRENT

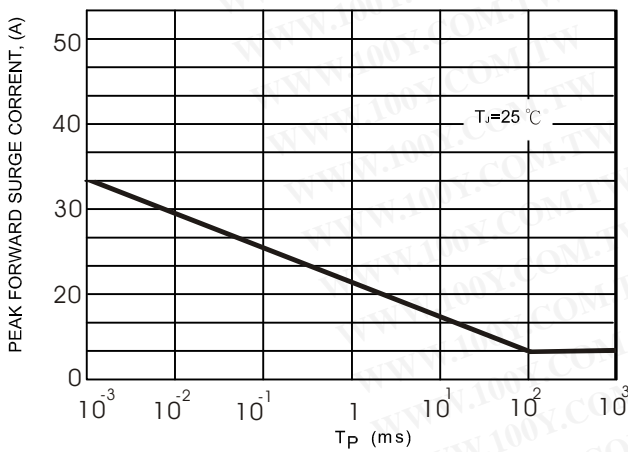


FIG.4 - TYPICAL JUNCTION CAPACITANCE

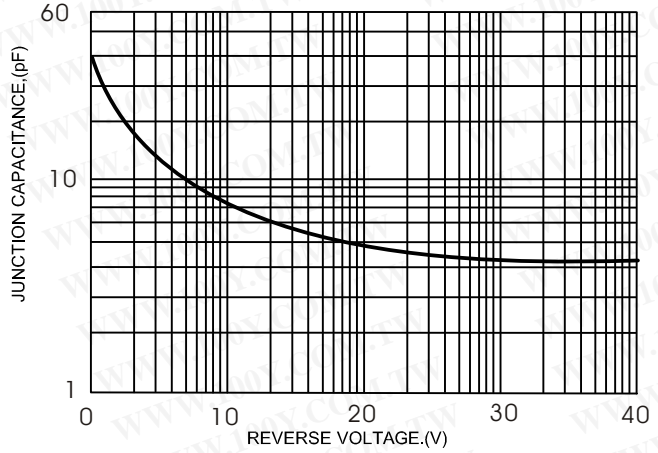


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

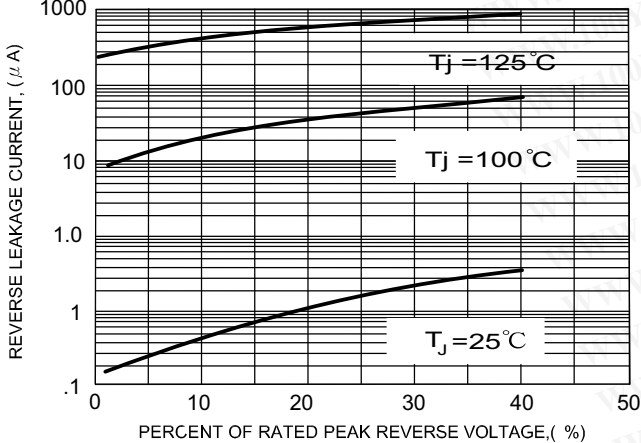
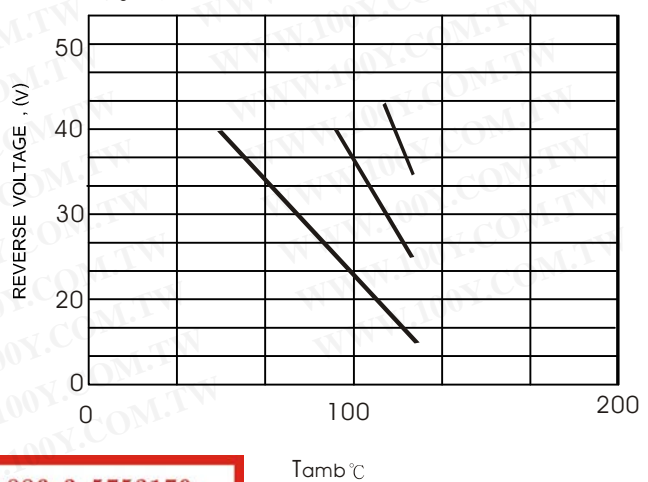


FIG.6 - FORWARD CURRENT



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