

## SD107WS-AU

### SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 30 Volt **POWER** 200mA

**SOD-323**

Unit : inch(mm)

#### FEATURES

- Very Low  $V_F$  : 0.36V(Max) at  $I_F=2mA$
- Low Capacitance : 3pF(Max) at  $V_R=10V$
- Extremely Fast Switching Speed
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

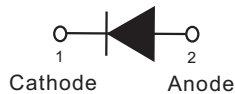
#### MECHANICAL DATA

Case : SOD-323, plastic

Terminals : Solderable per MIL-STD-750,Method 2026

Approx Weight : 0.00014 ounces, 0.0041 grams

Polarity : Color band cathode



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code	-	S9	-
Maximum Reverse Voltage	$V_R$	30	V
Peak Reverse Voltage	$V_{RRM}$	30	V
Maximum Forward Current	$I_F$	0.2	A
Non-Repetitive Forward Surge Current $t_p=10ms$	$I_{FSM}$	0.75	A
Power Dissipation (1)	$P_{TOT}$	200	mW
Thermal Resistance, Junction to Ambient (1)	$R_{\theta JA}$	625	°C/W
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

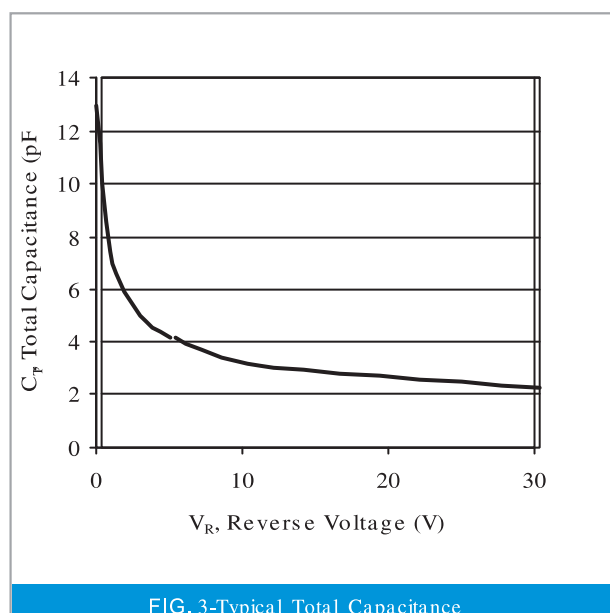
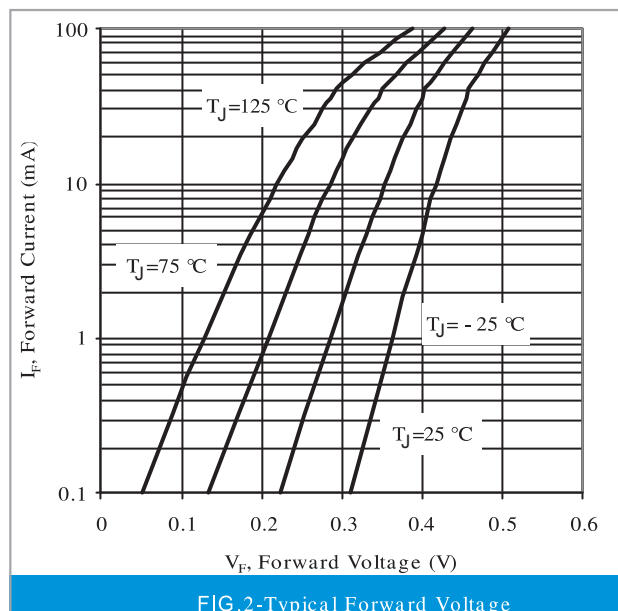
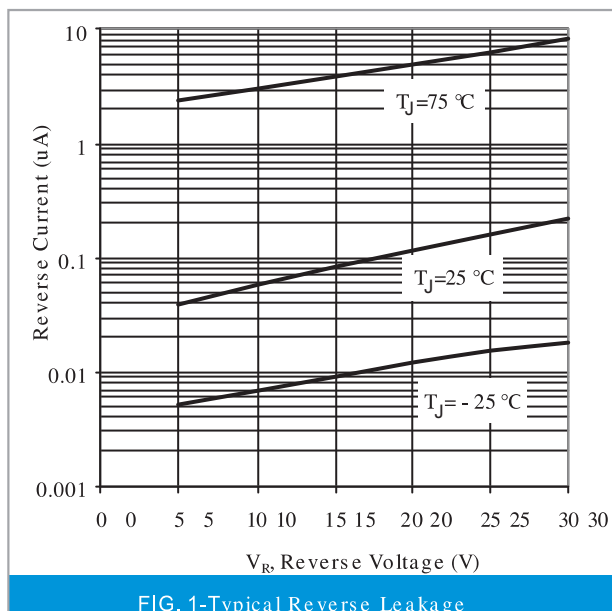
NOTE : FR-4 Board = 70 x 60 x 1mm.

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### ELECTRICAL CHARACTERISTICS (each diode)(T<sub>J</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =10μA	30	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =25V	-	-	1	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =100mA I <sub>F</sub> =2mA I <sub>F</sub> =50mA	-	-	0.80 0.36 0.55	V
Total Capacitance	C <sub>J</sub>	V <sub>R</sub> =10V, f=1.0MHz	-	3	7	pF

### ELECTRICAL CHARACTERISTICS CURVE

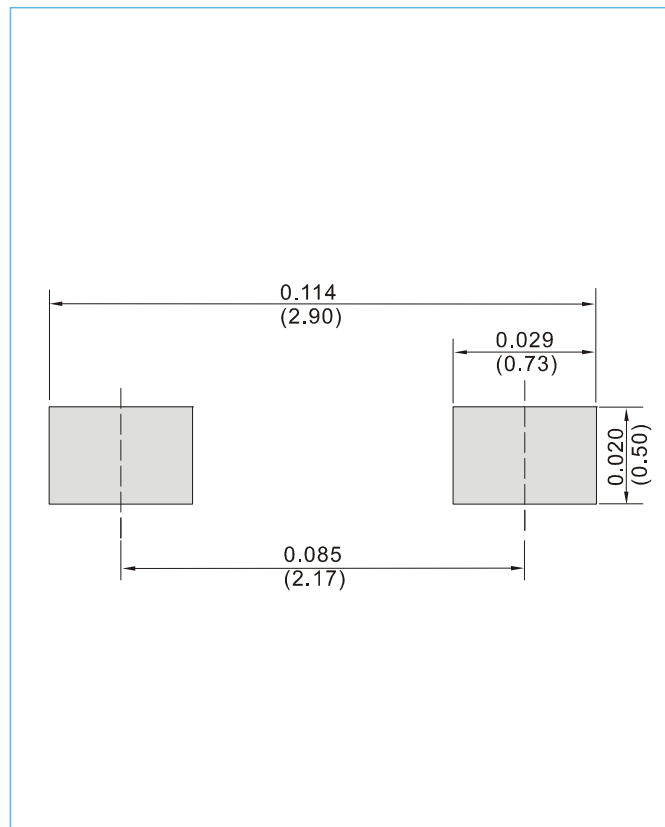


## SD107WS-AU

### MOUNTING PAD LAYOUT

**SOD-323**

Unit : inch(mm)



### ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

## SD107WS-AU

### Part No\_packing code\_Version

SD107WS-AU\_R1\_000A1

SD107WS-AU\_R2\_000A1

### For example :

**RB500V-40** **R2** **00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	HF	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	RoHS	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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