



# 1SS356

## SURFACE MOUNT PIN DIODE

**VOLTAGE** 35 Volts **POWER** 200 mW

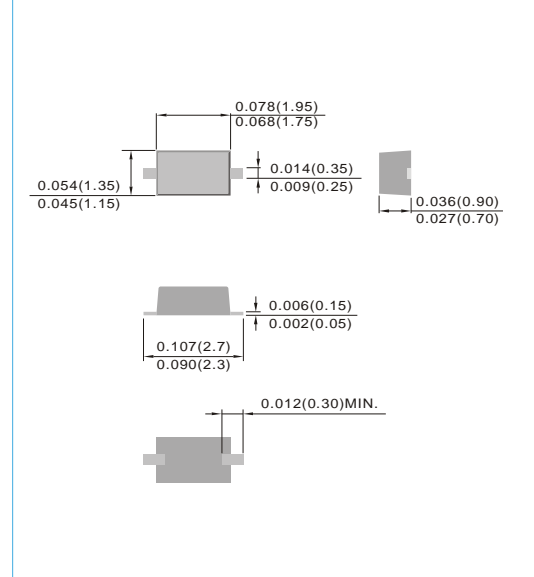
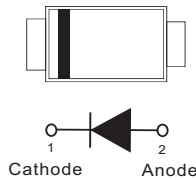
**SOD-323** Unit : inch(mm)

### FEATURES

- Very low series resistance at 100MHz (0.45Ω typical@I<sub>F</sub>=2mA)
- Low capacitance (0.8pF typical@V<sub>R</sub>=6V)
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-323 plastic
- Terminals : Solderable per MIL-STD-750,Method 2026
- Polarity : Color band cathode
- Approx Weight: 0.0041 grams
- Device Marking : 356



### ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Reverse Voltage	V <sub>R</sub>	35	V

### THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	P <sub>TOT</sub>	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R <sub>JA</sub>	625	°C / W
Junction Temperature	T <sub>J</sub>	-55 to 150	°C
Storage Temperature	T <sub>STG</sub>	-55 to 150	°C

Note 1 : FR-5 Board 1.0 x 0.75 x 0.062 in.



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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.01A	-	-	1.0	V
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =10μA	35	-	-	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =25V	-	-	10	nA
Series Resistance	R <sub>S</sub>	I <sub>F</sub> =2mA, f=100MHz	-	0.45	0.9	Ω
Total Capacitance	C <sub>T</sub>	V <sub>R</sub> =6V, f=1MHz	-	-	1.2	pF

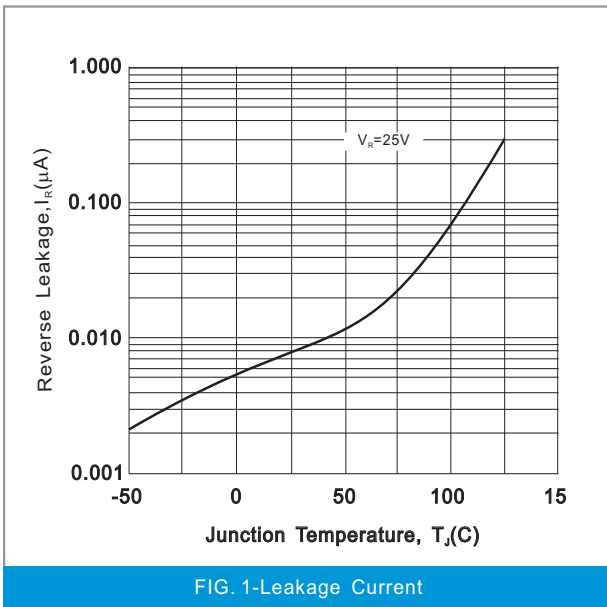


FIG. 1-Leakage Current

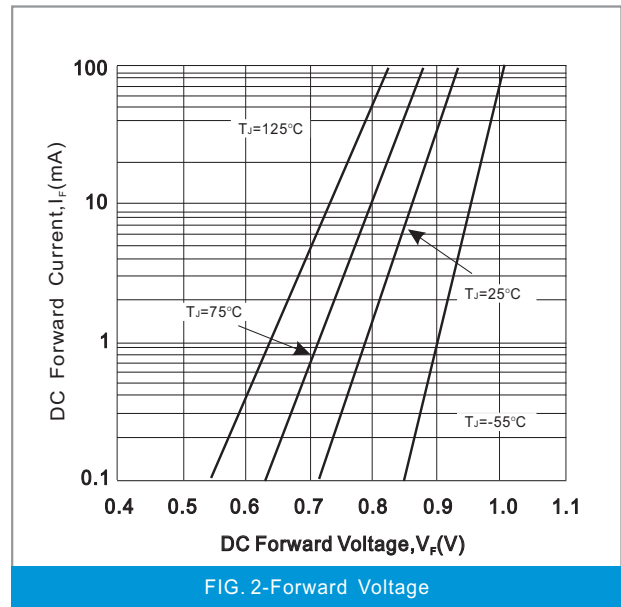


FIG. 2-Forward Voltage

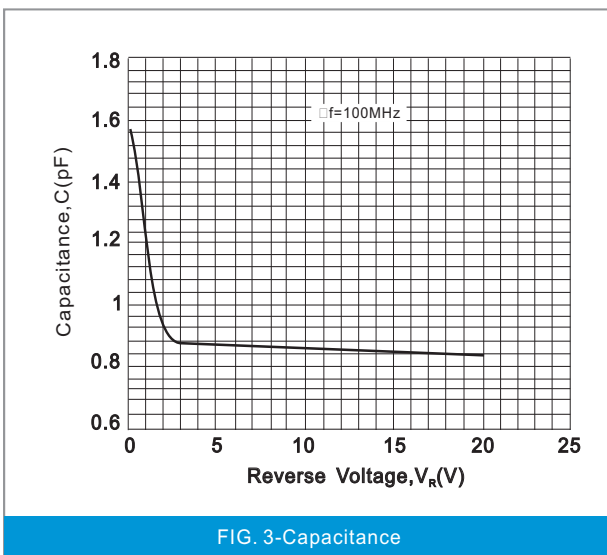


FIG. 3-Capacitance

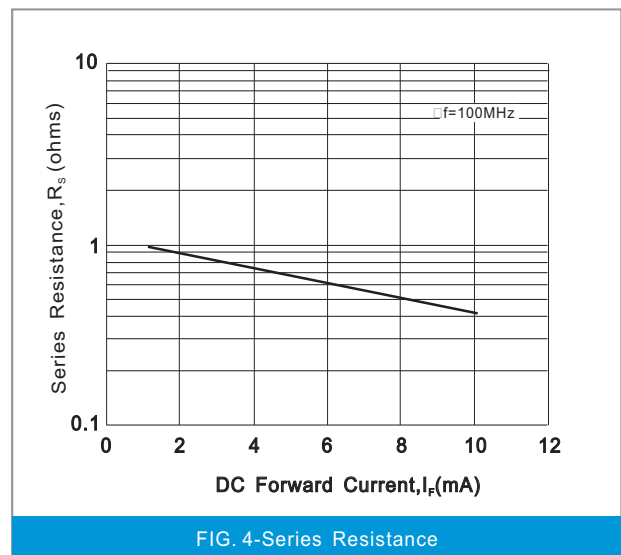


FIG. 4-Series Resistance

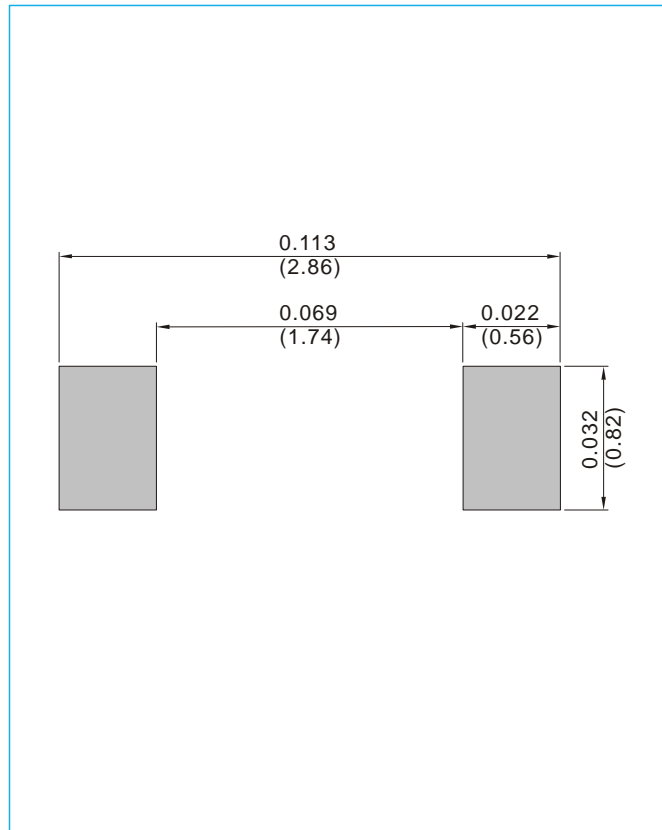


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## MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



## ORDER INFORMATION

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



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## Part No\_packing code\_Version

1SS356\_R1\_00001

1SS356\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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