



1SS355 SMALL SIGNAL DIODE



Features

- General purpose diodes
- Fast switching devices
- SOD323F Thin SMD package
- This is a Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Schematic & Pin Configuration



Mechanical Characteristics

Case: SOD-323F, Molded plastic

Matte Tin (Sn) Lead finish
Salarita Cathoda Band

Polarity: Cathode Band

Weight: 0.004 grams(approx)

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non- Repetitive Peak Reverse Voltage	V_{RM}	90	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	80	V
RMS Reverse Voltage	V _{R(RMS)}	64	V
Forward Continuous Current	I _F	225	mA
Average Rectified Output Current	Io	150	mA
Non-Repetitive Peak Forward Surge Current @t=1.0s	I _{FSM}	0.5	Α
Power Dissipation	P _D	200	mW
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C





Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage	V _{BR}	80	-	V	@I _R =100uA
Forward Voltage*	V _{FM}	-	1.2	V	@I _F =100mA
Reverse Leakage Current*	I _{RM}	-	0.1	uA	@V _R =80V
Capacitance	Ст	-	3	pF	V _R =0.5V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	4	ns	I_F =10mA, V_R =6V, R_L =100 Ω

^{*} Pulse width < 300 µs, duty cycle < 2%

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch
1SS355	SOD-323F	3000pcs / reel	8mm	4mm

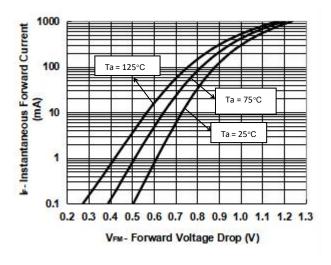
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



T4/ S5 = Marking Code

Ratings and Characteristics Curves





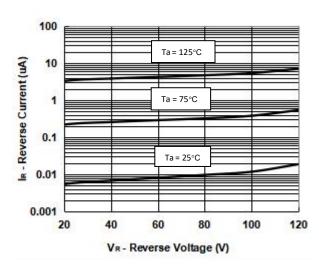


Fig. 2 - Typical Reverse Characteristics

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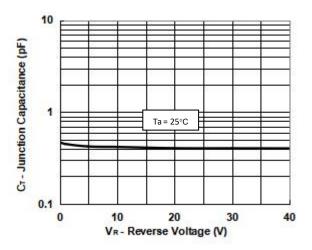


Fig. 3 - Typical Junction Capacitance

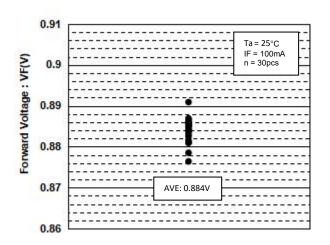


Fig. 4 - VF Dispersion map

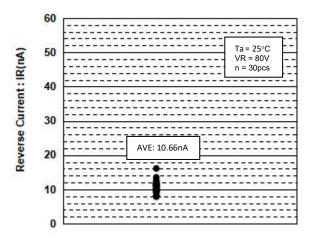


Fig.5 - IR Dispersion map

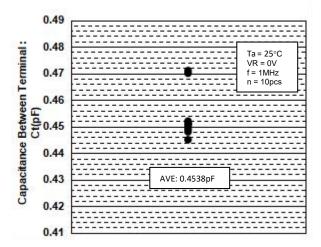


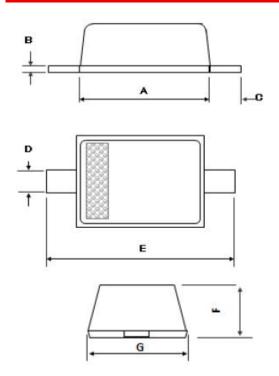
Fig.6 - Ct Dispersion map

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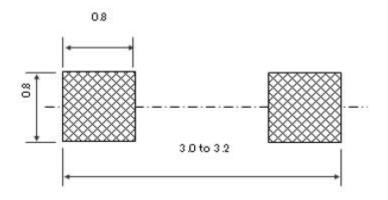


Mechanical Dimensions SOD-323F



SYMBOL	Millimeters		
	Min.	Max.	
А	1.60	1.80	
В	0.06	0.21	
С	0.30	0.50	
D	0.25	0.40	
E	2.30	2.70	
F	0.60	0.75	
G	1.15	1.35	

Land Pattern Recommendation SOD-323F (Millimeters)



Tolerance: ±0.05mm

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