

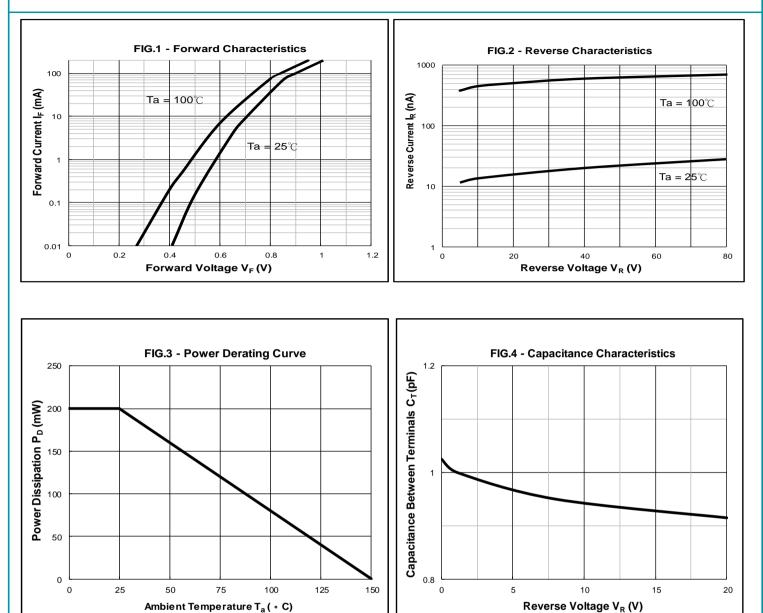
# 1N4148WS

High Speed Switching Diode		Forward Current - 300 mA Reverse Voltage - 100 V						
Description		Package	Outline					
<ul> <li>Power Dissipation of 200mW</li> </ul>		•						
<ul> <li>Fast Switching Device (TRR&lt;4nS)</li> </ul>								
High Stability and High Reliability								
Low Reverse Leakage				SOD323 T	op View			
Mechanical Data								
•Case: SOD323 Package		Device So	hematic & P	IN Con	figurat	ion		
<ul> <li>Case Material: "Green" Molding Compound UL Flamma Classification Rating 94V-0</li> </ul>					]			
•Terminals:Matte tin plated,solderable per MIL-STD-750 ,method 2026				◀	2			
<ul> <li>Component in accordance to RoHS</li> </ul>					J			
Halogen Free	Product Type Marking Code							
Note: Products with logo								
are made by HY Electronic (Cayman) Limited.								
Ordering Information				Γ4				
• Package :SOD323					$\vdash$			
Reel Size :7 (inches)					1			
<ul> <li>Quantity Per Reel :3,000/Tape &amp; Reel</li> </ul>		"T4" = Product Type Marking Code						
<ul> <li>Quantity One Box :45,000/Tape &amp; Reel</li> </ul>					C C			
Maximum Ratings (@TA = +25°C, unless otherv	wise specif	ied.)						
Absolute Ratings								
Parameter		Symbol		Value			Unit	
Reverse Voltage	everse Voltage		м 100			V		
Peak Forward Surge Current @ tp=1us		IFSM	-			А		
Non-Repetitive Peak Forward Current		Іғм	м 300				mA	
Average Rectified Current		lo					mA	
Power Dissipation		Po				mW		
Thermal Resistance from Junction to Ambient		Reja				° C/W		
Junction Temperature		TJ				° C		
Storage Temperature Range		Ts -55 to +150				°C		
Electrical Characteristics							U	
Parameter	Те	st Conditions	s Symbol	Min	Тур	Max	Unit	
		Ir=100uA		100	-	-	v	
Breakdown Voltage		Ir=5uA	Vbr	75	-	-		
		Vr=20V	-	-	25	nA		
Reverse Current		Vr=75V	lr Ir	-	-	1	uA	
		l⊧=1mA	mA		-	0.71		
		I⊧=10mA	, v	-	-	0.85	V	
Forward Voltage		l⊧=50mA	VF	-	-	1.00		
		IF=150mA		-	-	1.25		
				-				
Reverse Recovery Time Junction Capacitance	Irr=	I⊧=Iʀ=10mA :0.1*Iʀ,R∟=100 = 0V, F = 1MH		-	-	4 2	ns pF	



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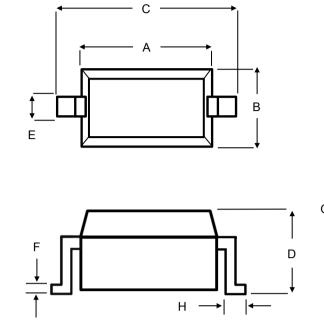
#### **Rating and Characteristic Curves**





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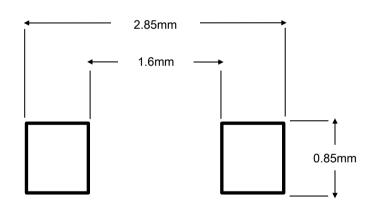
### Package Outline Dimensions



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SOD323 Package					
Dim	Min	Max			
А	1.6	1.8			
В	1.2	1.4			
С	2.5	2.7			
D	-	1.0			
E	0.25	0.35			
F	0.08	0.15			
G	-	0.1			
Н	0.25	0.4			
All Dimensions in mm					

#### Suggested Soldering Pad Layout



Note:

1. The pad layout is for reference purposes only.

2.General tolerance ±0.05mm

#### Disclaimer

All specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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