WINSOURCE ELECTRONICS

THE DATASHEET OF

1N4448WST/R

Technical Data
Data Sheet N0579, Rev. -

Green Products

1N4448WS FAST SWITCHING DIODE

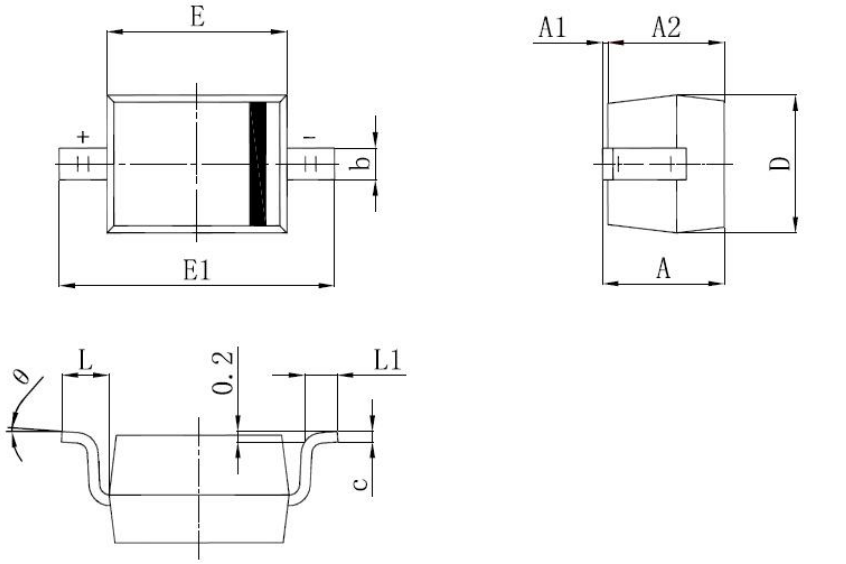
Features:

- **Small Package**
- **Low Reverse Current**
- **Fast Switching Speed**
- **Surface Mount Package Ideally Suited for Automatic Insertion**

Mechanical Data:

- **Case: SOD-323, Molded Plastic**
- **Terminals: Plated Leads Solderable per MIL-STD-202, Method 208**
- **Polarity: Cathode Band**
- **Marking: T5**
- **Weight: 0.004 grams(approx)**

Mechanical Dimensions: In mm / Inches



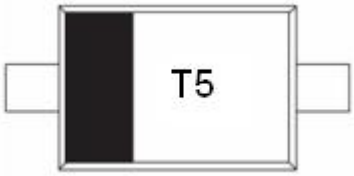
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.700	0.098	0.106
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

SOD-323(CJ)

Technical Data
Data Sheet N0579, Rev. -

Green Products

Marking Diagram:



T5 = Part Name

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
1N4448WS	SOD-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Technical Data
Data Sheet N0579, Rev. -

Green Products

Maximum Ratings @Ta=25℃

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	Io	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-65 to +150	°C

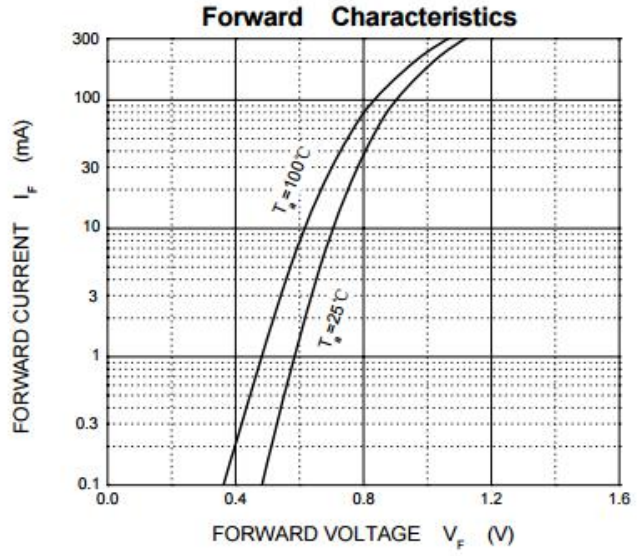
Electrical Characteristics @Ta=25℃

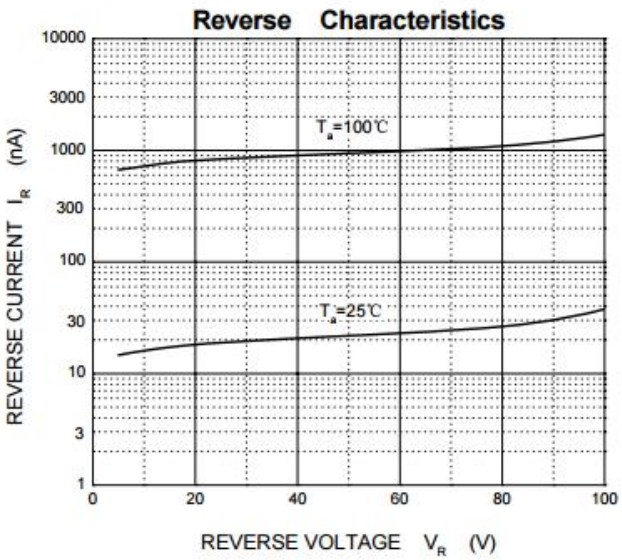
Characteristics	Symbol	Condition	Min.	Max.	Units
Forward Voltage Drop	V_{F1}	@ 5mA, Pulse, T_J = 25 °C @ 10mA, Pulse, T_J = 25 °C @ 100mA, Pulse, T_J = 25 °C @ 150mA, Pulse, T_J = 25 °C	0.62	0.72 0.855 1.0 1.25	V
Reverse Current	I_{R1}	@V_R = 75V, Pulse, T_J = 25 °C		2.5	μA
	I_{R2}	@ V_R = 20V, Pulse, T_J = 25°C		25	nA
Capacitance between terminals	C_T	@V_R = 0 V, Tc=25℃ f_{SIG} = 1MHz		4	pF
Reverse Recovery Time	t_{rr}	I_F=10mA I_R = 10mA T_J = 25 °C I_{rr} =1 mA R_L=100Ω		4	ns

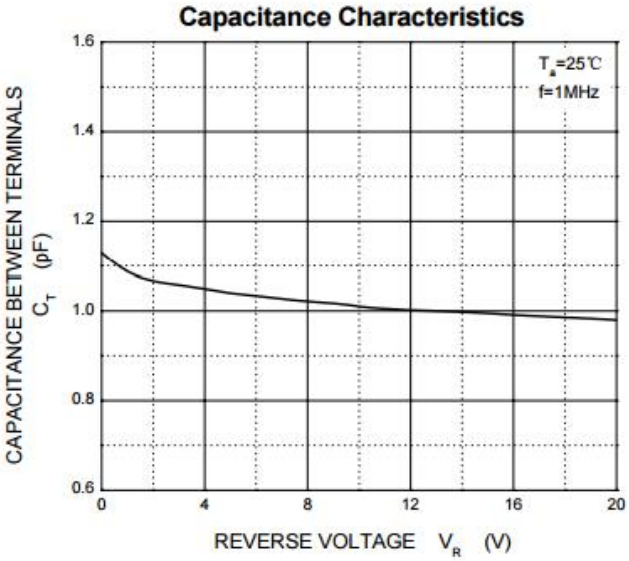
Technical Data
Data Sheet N0579, Rev. -

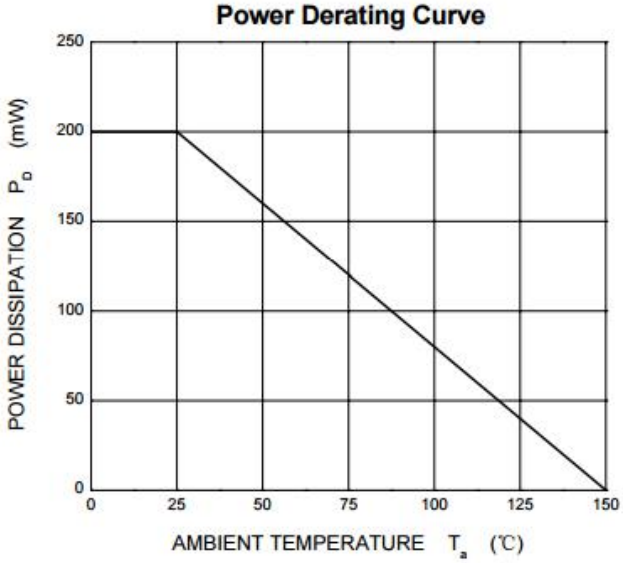
Green Products

Typical Characteristics









Technical Data
Data Sheet N0579, Rev. -

Green Products

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 1N4448WST/R on WIN SOURCE
- SMC Diode Solutions Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management