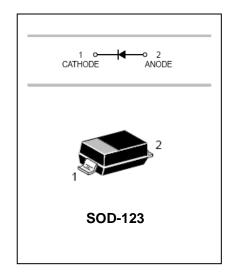
BL Galaxy Electrical

Silicon Epitaxial Planar Diode

1N4148W

FEATURES

- Fast Switching Speed:trr=4ns(Typ)
- Pb)
- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Available in Lead Free Version



APPLICATIONS

Surface mount fast switching diode.

ORDERING INFORMATION

Type No.	Marking	Package Code	
1N4148W	T4	SOD-123	

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Io	150	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μs	I _{FSM}	2.0	Α
@t=1.0 s		1.0	
Power Dissipation	P _d	350	mW
Thermal Resistance Junction to Ambient Air	R _{0JA}	357	°C/W
Operating and Storage Temperature Rage	T_j, T_{STG}	-65 to+150	$^{\circ}$

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Rev.A



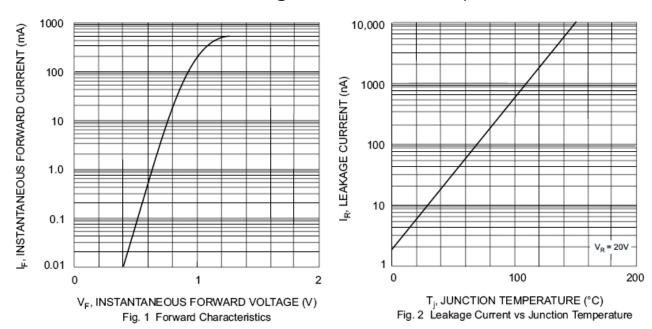
Silicon Epitaxial Planar Diode

1N4148W

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition						
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	V	I _R =10μA						
Forward Voltage	V _F		0.715		I _F =1.0mA						
			0.855	V	I _F =10mA						
Forward Voltage		VF	VF	V _F -	-	1.0	V	I _F =50mA			
			1.25		I _F =150mA						
Davage Comment	I _R		1	μA	V _R =75V						
Reverse Current		IR	IR	IR	'R	^I R	IR .	^I R	-	25	nA
Capacitance between terminals	C _T	-	2.0	pF	V _R =0,f=1.0MHz						
Reverse Recovery Time	t _{rr}	-	4.0	ns	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$						

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



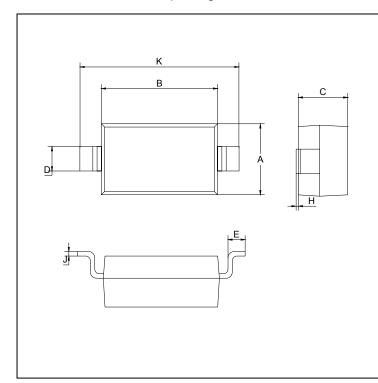
Silicon Epitaxial Planar Diode

1N4148W

PACKAGE OUTLINE

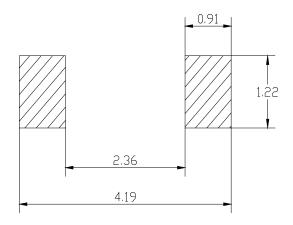
Plastic surface mounted package

SOD-123



SOD-123			
Dim	Min	Max	
Α	1.4	1.8	
В	2.55	2.85	
С	1.15 Typical		
D	0.5	0.6	
Е	0.3	0.4	
Н	0.02	0.10	
J	0.1 Typical		
К	3.55	3.85	
All Dimensions in mm			

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
1N4148W	SOD-123	3000/Tape&Reel

www.s-manuals.com