multicomp **PRO**

1 0-CATHODE





o 2 ANODE

Features:

- Fast Switching Speed: trr = 4ns (Typ.)
- · 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

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Value	Unit
Non-Repetitive peak reverse voltage	Vrm	100	V
Peak repetitive reverse voltage Working peak reverse voltage DC Reverse Voltage	Vrrm Vrwm Vr	75	V
RMS Reverse Voltage	Vr(rms)	53	V
Forward continuous current	Іғм	300	mA
Average rectified output current	lo	150	mA
Non-Repetitive peak forward surge current at t=1µs at t=1s	IFSM	2 1	А
Power dissipation	Pd	350	mW
Thermal resistance junction to ambient air	Reja	357	°C/W
Operating and storage temperature range	Тj, Tsтg	-65 to+150	°C

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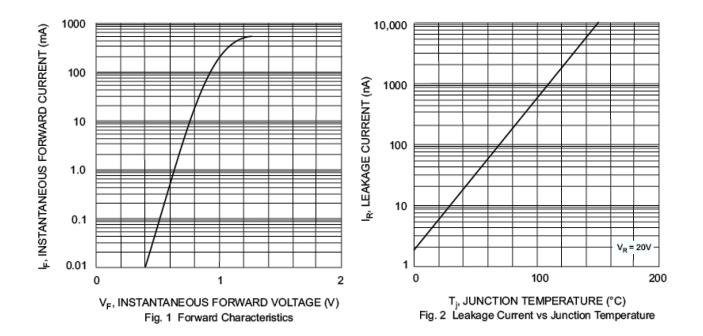
Electrical Characteristics:

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	V(BR)R	75	-	V	Ι _R = 1μΑ
Forward voltage	VF	-	0.715 0.855 1 1.25	V	IF = 1mA IF = 10mA IF = 50mA IF = 150mA
Reverse current	lr	-	1 25	μA nA	V _R = 75V V _R = 20V
Capacitance between terminals	Ст	-	2	pF	V _R = 0, f = 1MHz
Reverse recovery time	trr	-	4	ns	I _F = I _R = 10mA, I _{rr} = 0.1 × I _R , R _L = 100Ω

Typical Characteristics:

T_A = 25°C unless otherwise specified.

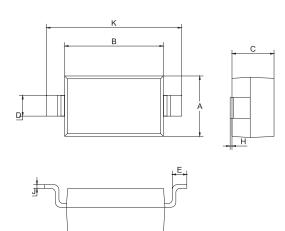


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Package Outline:

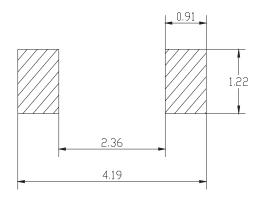
Plastic surface mounted package



SOD-123				
Dim.	Min.	Max.		
А	1.4	1.8		
В	2.55	2.85		
С	1.15 Typ.			
D	0.5	0.6		
E	0.3	0.4		
н	0.02	0.1		
J	0.1 Тур.			
К	3.55	3.85		

Dimensions : Millimetres

Soldering Footprint:



Package Information:

Device	Package	Shipping
1N4148W-13-F	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Silicon Epitaxial Planar Diode	1N4148W-13-F	

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