multicomp

# Silicon Epitaxial Planar Diode multicomp

# 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	200	mW
Thermal resistance junction to Ambient Air	Reja	625	°C/W
Operating and storage temperature range	Тј, Тѕтс	-65 to+150	°C

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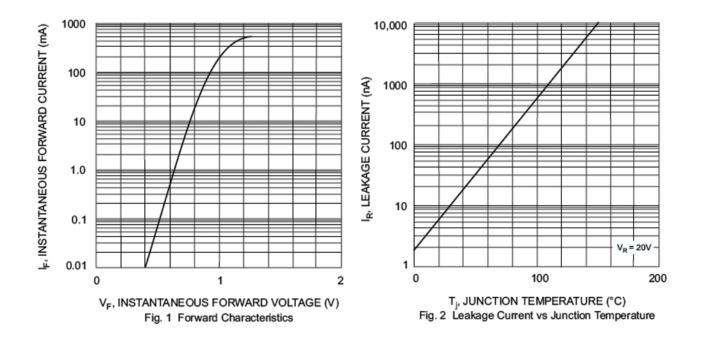
# **Electrical Characteristics:**

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	V(BR)R	75	-	V	I <b>⊧</b> =10µA
Forward voltage	VF	-	0.715 0.855 1 1.25	V	I⊧=1mA I⊧=10mA I⊧=50mA I⊧=150mA
Reverse current	lr	-	1 25	μA nA	V <sub>R</sub> =75V V <sub>R</sub> =20V
Capacitance between terminals	Ст	-	2	pF	V <sub>R</sub> =0, f=1MHz
Reverse recovery time	trr	-	4	ns	I⊧=I₨=10mA, I╓=0.1 × I₨₨L=100Ω

# Typical Characteristics:

T<sub>A</sub> = 25°C unless otherwise specified.

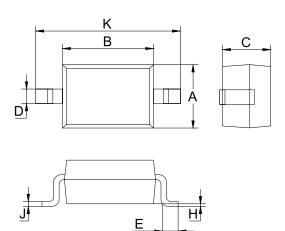


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### Package Outline:

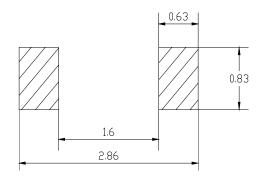
Plastic surface mounted package



SOD-323				
Dim.	Min.	Max.		
A	1.275	1.325		
В	1.675	1.725		
С	0.95 Typ.			
D	0.25	0.35		
E	0.27	0.37		
н	0.02	0.1		
J	0.1 Тур.			
к	2.6	2.7		

**Dimensions : Millimetres** 

# **Soldering Footprint:**



# **Package Information:**

Device	Package	Shipping
1N4148WS-7-F	SOD-323	3,000 / Tape & Reel

# Part Number Table

Description	Part Number	
Silicon Epitaxial Planar Diode	1N4148WS-7-F	

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