Surface Mount Schottky Barrier Diode









SOD-123

Features:

- · Low Forward Voltage Drop
- · Guard Ring Construction for Transient Protection
- · Fast Switching Time
- · Low Reverse Capacitance.
- Surface Mount Package Ideally Suited for Automatic Insertion

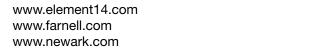
Applications:

· Surface mount fast switching Schottky diode

Maximum Ratings:

T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	Vrrm Vrwm Vr	70	V
RMS reverse voltage	VR(RMS)	49	V
Forward continuous current	lF	15	mA
Power dissipation	Po	250	mW
Thermal resistance junction to ambient air	Reja	600	°C/W
Operating and storage temperature range	Тj, Tsтg	-65 to+150	°C





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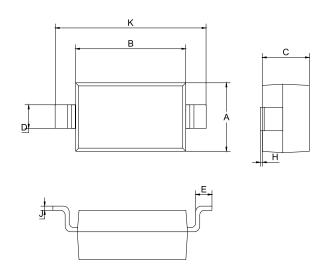
Electrical Characteristics:

T_A = 25°C unless otherwise specified.

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	V _{(BR)R}	70	-	V	IR=10μA
Forward voltage	VF	-	0.41 1	V	I⊧=1mA I⊧=15mA
Reverse current	lr	-	200	nA	V _R =50V
Capacitance between terminals	Cj	-	2	pF	V _R =0, f=1MHz
Reverse recovery time	trr	-	1	ns	I _F =I _R =5mA, I _{II} =0.1 × I _R , R _L =100Ω

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 Typ.			
К	3.55	3.85		

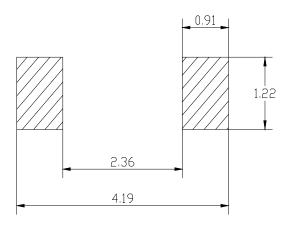
Dimensions: Millimetres



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Soldering Footprint:



Dimensions: Millimetres

Package Information:

Device	Package	Shipping
1N5711W-7-F	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Surface Mount Schottky Barrier Diode	1N5711W-7-F	

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