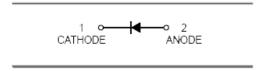
Schottky Barrier Diode









SOD-123

Features:

- · Low Forward Voltage Drop
- · Guard Ring Construction for Transient Protection
- · Negligible Reverse Recovery Time
- · Low Reverse Capacitance

Applications:

Schottky barrier switching

Maximum Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	SD103AW-13-F	SD103AW-7-F	Unit
Peak repetitive peak reverse voltage Working peak DC reverse voltage	V _{RRM} V _{RWM} V _R	40		V
RMS reverse voltage	V _{R(RMS)}	28		V
Forward continuous current	I _F	350		mA
Repetitive peak forward current @ t < 1s	I _{FRM}	1.5		Α
Power dissipation	P _D	400		mW
Thermal resistance junction to ambient	$R_{\theta j A}$	300		°C/W
Storage temperature	T _{stg}	-65 to +125		°C

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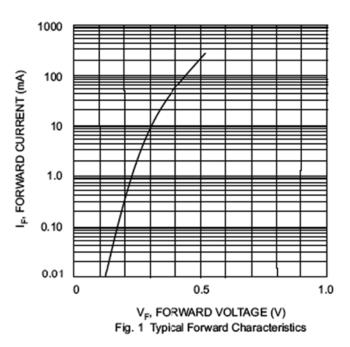
Schottky Barrier Diode

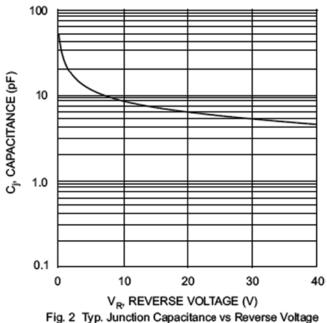


Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse breakdown voltage	V _{(BR)R}	40			V	I _R = 10μA
Forward voltage	V _F			0.37 0.6	V	I _F = 20mA I _F = 200mA
Reverse current	I _{RM}			5	μΑ	V _R = 30V
Capacitance between terminals	C _T		50		pF	V _R = 0, f = 1MHz
Reverse recovery time	t _{rr}		10		ns	$I_{R} = I_{F} = 200 \text{mA}$ $I_{rr} = 0.1^{*} I_{R}, R_{L} = 100 \Omega$

Typical Characteristics @ TA = 25°C unless otherwise specified



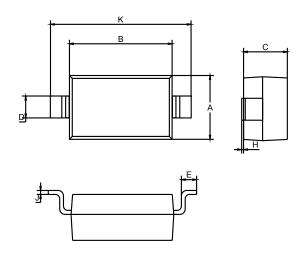


Schottky Barrier Diode



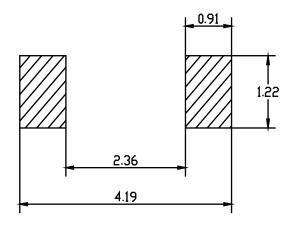
Package Outline

Plastic surface mounted package



SOD-123				
Dim	MinM	ax		
Α	1.41	.8		
B2	.55	2.85		
C1	.15 Typical			
D	0.50	.6		
E0	.3	0.4		
Н	0.02 0	.10		
J0	.1 Typical			
K 3	.55	3.85		
All Dimensions in mm				

Soldering Footprint



Dimensions: Millimetres

Package Information

Device	Package	Shipping
SD103AW-13-F SD103AW-7-F	SOD-123	3,000/Tape & Reel

Part Number Table

Description	Part Number	
Cobattle, Parrier Diade	SD103AW-13-F	
Schottky Barrier Diode	SD103AW-7-F	

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