Schottky Barrier Diode

multicomp PRO



Features

- Low Power Loss, High Efficiency
- · Low Forward Voltage Schottky Rectifier
- High Current Capability
- · High Surge Capability
- · Halogen Free

RoHS Compliant

Schematic and PIN Configuration



Marking Code



Specifications

Forward Current : 300mA Reverse Voltage : 30V

Terminals : Matte tin plated
Case : SOD123 Package

Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Absolute Ratings

Parameter	Symbol	Value	Unit		
Repetitive Peak Reverse Voltage	VRRM	30			
RMS Voltage	VRMS	21	\ \		
DC Blocking Voltage	V DC	30]		
Forward Rectified Current	lғм	300	mA		
Peak Forward Surge Current @ t = 8.3ms	IFSM	600	mA		
Power Dissipation	Pb	500	mW		
Storage Temperature Range	Тѕтс	-50 to +150	°C		
Thermal Resistance from Junction to Ambient	RθJA	250	°C/W		

Electrical Characteristics

Parameter	Test Conditions	Symbol	Min.	Тур.	Max.	Unit
Reverse Voltage	IR = 100μA	VBR	30	-	-	V
Reverse Current	VR= 25V	lR	-	-	2	μA
Forward Voltage	IF = 0.1mA		-	-	0.24	
	IF = 1mA		-	-	0.32]
	IF = 10mA	VF	-	-	0.4	V
	IF = 30mA		-	-	0.5]
	IF = 100mA		-	-	0.8	
Junction Capacitance	VR = 1V, F = 1MHz	CD	-	-	10	pF

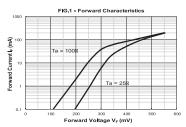
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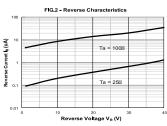


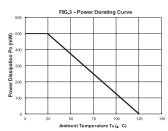
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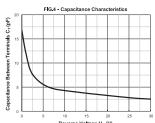


Rating and Characteristic Curves

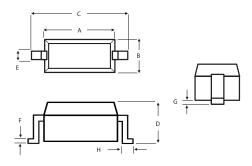






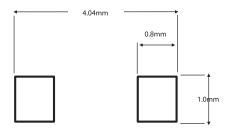


Diagram



SOD123 Package				
Dim	Min.	Max.		
А	2.6	2.8		
В	1.5	1.7		
С	3.55	3.85		
D	1.05	1.25		
E	0.45	0.65		
F	0.08	0.15		
G	-	0.1		
Н	0.25	0.45		

Soldering Pad Layout



Part Number Table

Dimensions: Millimetres Tolerance ±0.05mm

Description	Part Number	
Schottky Barrier Diode, 30V, 300mA, SOD-123	BAT54W	

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