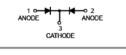
Schottky Barrier Diode

multicomp



Features:

- Extremely Fast Switching Speed •
- Low Forward Voltage •
- Power Dissipation PD = 200mW •
- Pb-Free Package is Available





Fast switching speed diode

SOT-23

Max. Rating @ T_A = 25°C unless otherwise specified

Paramete)r	Symbol	Limits	Unit
Peak repetitive peak reverse volta Working peak DC reverse voltage	ge	Vrrm Vrms Vr	30	V
Forward continuous current		lF	200	mA
Repetitive peak forward current		IFRM	200	mA
Forward surge current	@t<1.0s	Іғѕм	600	mA
Power dissipation		Po	200	mW
Thermal resistance, junction to an	nbient air	Reja	500	°C/W
Operating and storage temperatur	re	Т _ј , Тsтg	-55 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

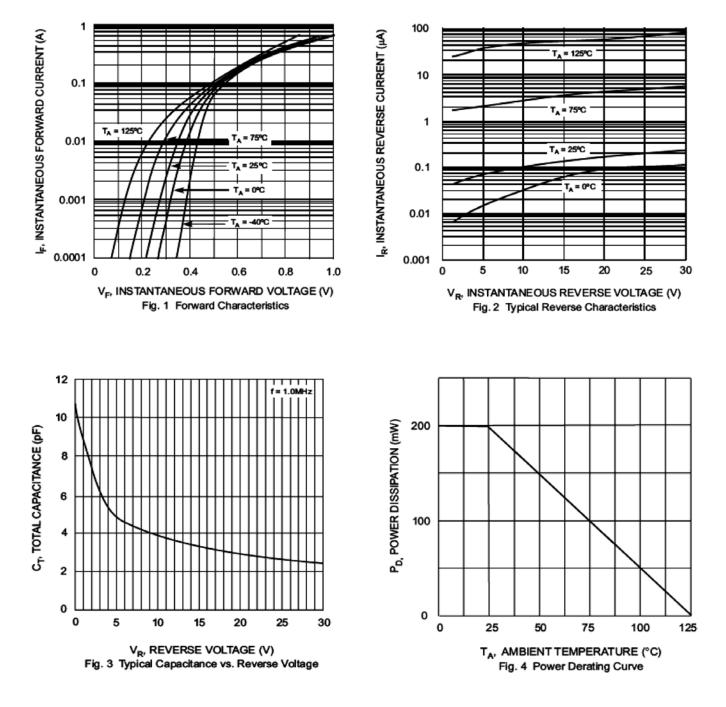
Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(br)	Ικ = 100μΑ	30	-	V
	VF1	I⊧ = 0.1mA	-	0.24	V
	VF2	I⊧ = 1mA	-	0.32	V
Forward voltage	VF3	I⊧ = 10mA	-	0.4	V
	VF4	I⊧ = 30mA	-	0.5	V
	VF5	I⊧ = 100mA	-	1	V
Reverse current	lr	VR = 25V	-	2	μA
Diode capacitance	Ср	VR = 1V, f = 1MHz	-	10	pF
Reverse recovery time	trr	l⊧ = lℝ = 10mA lrr = 0.1 × lℝ, R∟ = 100Ω	-	5	ns

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Typical Characteristics @ T_A = 25°C unless otherwise specified

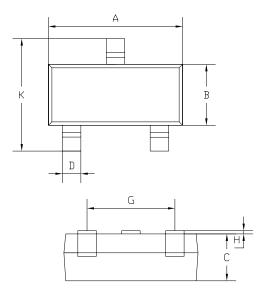


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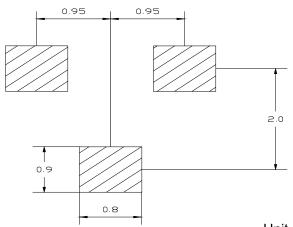


Plastic surface mounted package



	SOT-23	
Dim	Min	Max
А	2.85	2.95
В	1.25	1.35
С	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
Н	0.02	0.1
J	0.1Typical	
К	2.35	2.45
All Dimensions in mm		

Soldering Footprint



Package Information

Device	Package	Shipping
BAT54C-7-F	SOD-23	3,000 / Tape & Reel

Unit : mm

Part Number Table

Description	Part Number	
Schottky Barrier Diode	BAT54C-7-F	

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