Schottky Barrier Diode





Applications:

Fast switching speed diode

Features:

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





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

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak DC reverse voltage	Vrrm Vrms Vr	30	V
Forward continuous current	lF	200	mA
Repetitive peak forward current	IFRM	200	mA
Forward surge current @t<1.0s	IFSM	600	mA
Power dissipation	Po	200	mW
Thermal resistance, junction to ambient air	RθJA	500	°C/W
Operating and storage temperature	Т _j , Тsтg	-55 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	IR = 100μA	30	-	V
Forward voltage	V _{F1}	IF = 0.1mA	-	0.24	V
	VF2	IF = 1mA	-	0.32	V
	VF3	IF = 10mA	-	0.4	V
	VF4	IF = 30mA	-	0.5	V
	VF5	IF = 100mA	-	1	V
Reverse current	lr	V _R = 25V	-	2	μA
Diode capacitance	Ср	V _R = 1V, f = 1MHz	-	10	pF
Reverse recovery time	trr	I _F = I _R = 10mA I _{RR} = 0.1 × I _R , R _L = 100Ω	-	5	ns

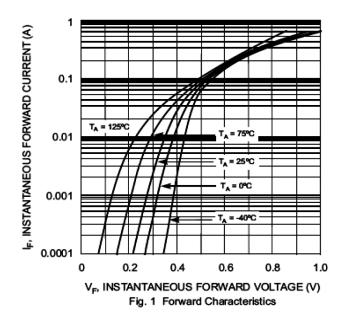
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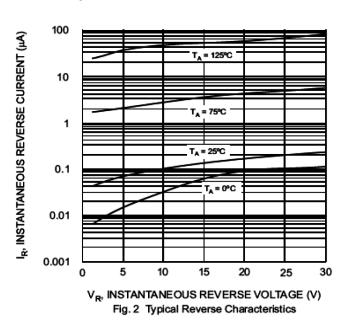


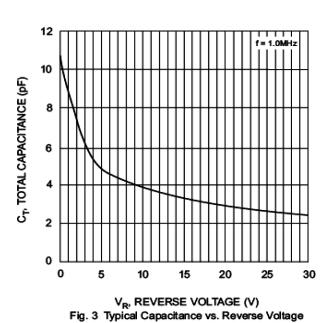
Schottky Barrier Diode multicomp PRO

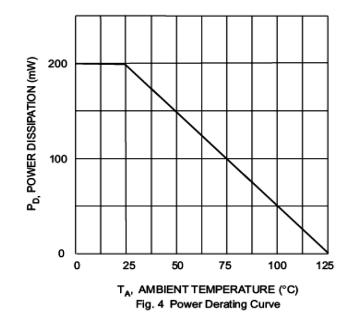


Typical Characteristics @ Ta=25°C unless otherwise specified





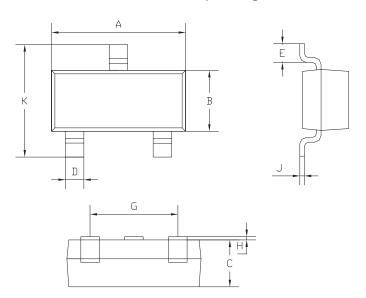




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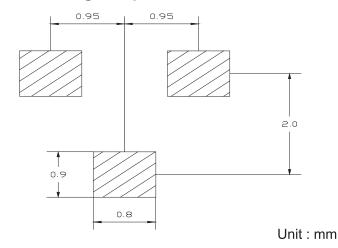


Plastic surface mounted package



SOT-23				
Dim	Min	Max		
Α	2.85	2.95		
В	1.25	1.35		
С	1.0Typical			
D	0.37	0.43		
E	0.35	0.48		
G	1.85	1.95		
Н	0.02	0.1		
J	0.1Typical			
K	2.35	2.45		
All Dimensions in mm				

Soldering Footprint



Package Information

Device	Package	Shipping
BAT54-7-F	SOD-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Schottky Barrier Diode	BAT54-7-F

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