

BAT54/A/C/S

200mW Surface Mount Schottky Barrier Diode

SOT-23

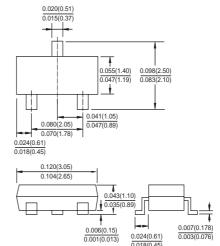


Features

- ♦ Low turn-on voltage
- ♦ Fast switching
- ♦ PN junction guard ring for transient

Mechanical Data

Case: SOT-23, Molded plasticWeight: 0.008 gram (approx.)



Dimensions in inches and (millimeters)



Maximum Ratings TA=25 °C unless otherwise specified

Type Number	Symbol	Value	Units	
Peak Repetitive Reverse Voltage	VRRM			
Working Peak Reverse Voltage	VRWM	30	V	
DC Blocking Voltage	VR			
Forward Continuous Current	lF	200	mA	
Repetitive Peak Forward Current	IFM	300	mA	
Forward Surge Current @ t=1.0s	IFSM	600	mA	
Power Dissipation (Note 1)	Pd	200	mW	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	°C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 125	°C	

Electrical Characteristics

Type Number	Symbol	Min	Тур	Max	Units
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	30	-	-	V
Reverse Leakage Current (Note 1) VF	R=25V I _R	-		2.0	uA
Forward Voltage (Note1)	A A NA V _F	-		240 320 400 500 1000	mV
Junction Capacitance VR=0, f=1.0N	ИHz Cj	-		10	pF
Reverse Recovery Time (Note 2)	trr	-		5.0	nS

Notes:

- 1. Short Duration Pulse Test used to Minimize Self-Heating Effect.
- 2. Reverse Recovery Test Conditions: IF=10mA through IR=10mA to IR=1.0mA, RL=100Ω.



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RATINGS AND CHARACTERISTIC CURVES (BAT54 / A / C / S)

