BAS21SD-HAF

Silicon Epitaxial Planar Diodes

High Voltage Switching Diodes

Features

- Halogen and Antimony Free(HAF), RoHS compliant

1. Cathode 2. Cathode 3. Cathode
4. Anode 5. Anode 6. Anode
Marking Code: SC
SOT-26 Plastic package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	250	V
Continuous Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 µs	I_{FSM}	0.5 2.5	A
Total Device Dissipation	P_{tot}	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 100 mA at I_F = 200 mA	V_F	- -	1 1.25	V V
Reverse Breakdown Voltage at I_R = 100 µA	$V_{(BR)}$	250	-	V
Reverse Current at V_R = 200 V at V_R = 200 V, T_j = 150 °C	I_R	- -	100 100	nA µA
Total Capacitance at V_R = 0, f = 1 MHz	C_{tot}	-	5	pF
Reverse Recovery Time at I_F = I_R= 30 mA, $I_{R(REC)}$ = 3 mA, R_L = 100 Ω	t_{rr}	-	50	ns

Reverse current $I_R = f(T_A)$

V_R = 200V

Forward Voltage $V_F = f(T_A)$

I_F = Parameter

Forward current $I_F = f(V_F)$

Package Outline Dimensions (Units: mm) **SOT-26**

Recommended Soldering Footprint

Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-26	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000