LITEON LITE-ON SEMICONDUCTORS

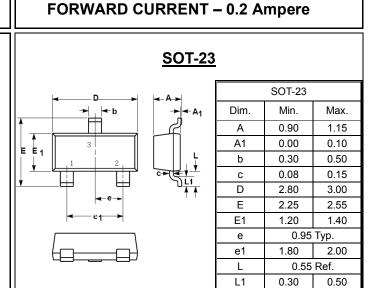
SURFACE MOUNT FAST SWITCHING DIODE

FEATURES

- Fast Switching Speed
- · Ideally suited for automatic insertion
- For general purpose switching applications

MECHANICAL DATA

- Case: SOT-23 Plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant



REVERSE VOLTAGE – 250 Volts

Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	BAS21	BAS21A	BAS21C	BAS21S	Units
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	250			V	
Forward Continuous Current	I _{FM}	400			mA	
Average Rectified Output Current	Ι _Ο	200			mA	
Repetitive Peak Forward Current @t=1us @t=1s	I _{FSM}	2.5 0.5			A	
Repetitive Peak Forward Surge Current	I _{FRM}	625			mA	
Power Dissipation	PD	225				mW
Thermal Resistance Junction to Ambient	R⊖ _{JA}	556			°C/W	
Operating Temperature Range	TJ	150			°C	
Storage Temperature Range	T _{STG}	-65~+150			°C	

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

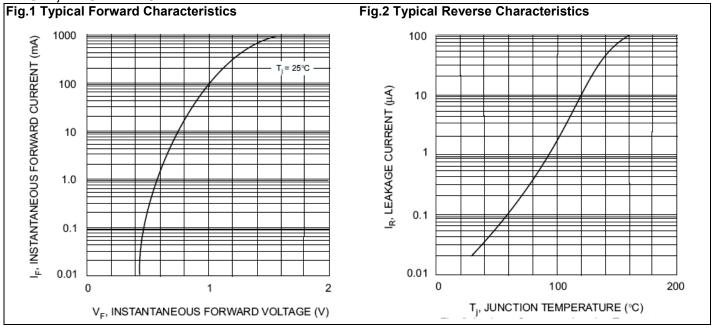
Reverse Breakdown Voltage $I_R = 100uA$ V_{BR} Maximum Forward Voltage $I_F = 100mA$ $I_F = 200mA$ V_F Maximum DC Reverse Current at Rated DC Blocking Voltage $V_R = 200V$ I_R Typical Diode Capacitance $V_R = 0V, f=1MHz$ C_D	25	50	1	
Maximum Forward Voltage $I_F = 200 \text{mA}$ V_F Maximum DC Reverse Current at Rated DC Blocking Voltage $V_R = 200 \text{V}$ I_R Typical Diode Capacitance $V_R = 0 \text{V}, \text{f=1MHz}$ C_D		250		
at Rated DC Blocking Voltage $V_R = 200V$ I_R Typical Diode Capacitance $V_R = 0V, f = 1MHz$ C_D	1 1.25			V
	1		uA	
	Ę	5		pF
Irr=3mA,Reverse Recovery time $I_F=I_R=30mA$,trr $R_L=100\Omega$ $R_L=100\Omega$	50			nS

REV. 2, Oct-2010, KSYR26

BAS21, BAS21A/C/S

Dimensions in millimeter

RATING AND CHARACTERISTIC CURVES BAS21, BAS21A/C/S



EON

Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram		
BAS21	JS	3 0−−−−0 1		
BAS21A	JS2	3 0 - 0 1		
BAS21C	JS3			
BAS21S	JS4	3 0- 0 1 2		



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