## LITEON LITE-ON SEMICONDUCTORS

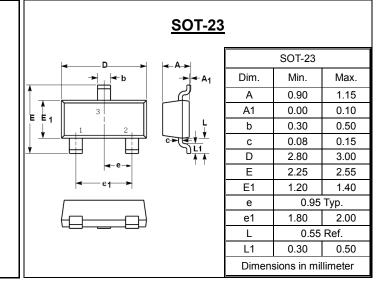
## SURFACE MOUNT FAST SWITCHING DIODE

### 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



FORWARD CURRENT – 0.2 Ampere

## **Maximum Ratings & Thermal Characteristics** @ T<sub>A</sub> = 25°C unless otherwise specified

	-	-	
Characteristic	Symbol	BAV74	Units
Non-Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	V
DC Blocking Voltage	V <sub>R</sub>	50	V
Average Rectified Output Current	Ι <sub>Ο</sub>	200	mA
Non-Repetitive Peak Forward @t=1.0us	I <sub>FSM</sub>	4.5	А
Power Dissipation	P <sub>D</sub>	225	mW
Thermal Resistance, Junction to Ambient	Reja	556	°C <b>/W</b>
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~+150	°C

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

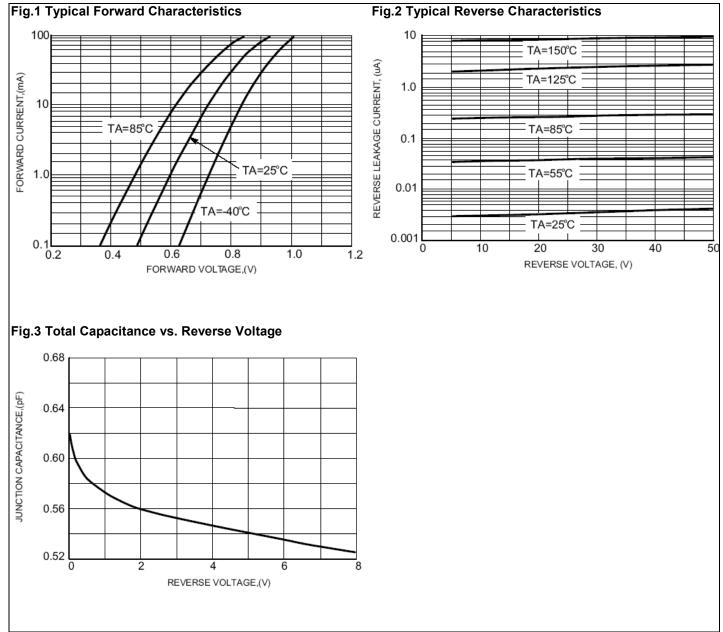
Characteristic	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	I <sub>R</sub> = 5uA	V <sub>BR</sub>	50			V
Maximum Forward Voltage	I <sub>F</sub> = 100mA	V <sub>F</sub>			1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V <sub>R</sub> = 70V	I <sub>R</sub>			5	nA
Typical Diode Capacitance	V <sub>R</sub> =0V,f=1MHz	CD			2	pF
Reverse Recovery time	Irr=1mA, $I_R=I_F=10mA$ $R_L=100\Omega$	trr			4	ns

REV. 3, Oct-2010, KSYR38

# REVERSE VOLTAGE – 70 Volts

# **BAV74**

# RATING AND CHARACTERISTIC CURVES BAV74



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### **Device Marking :**

Device P/N	Marking code	Equivalent Circuit Diagram
BAV74	JA	3 <b>0</b>



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