# LITEON LITE-ON SEMICONDUCTORS

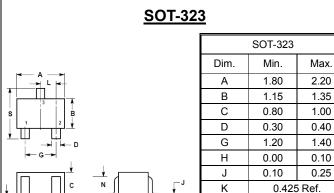
#### SURFACE MOUNT **FAST SWITCHING DIODE**

#### **FEATURES**

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

#### **MECHANICAL DATA**

- Case: SOT-323 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



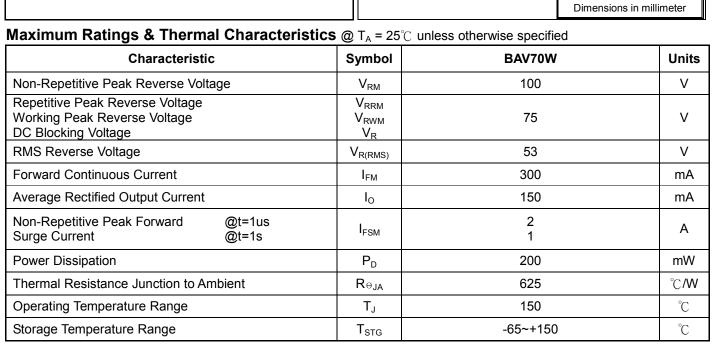
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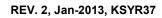
**REVERSE VOLTAGE – 75 Volts** 

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#### Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	I <sub>R</sub> = 100uA	$V_{BR}$	75			V
Maximum Forward Voltage	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$	V <sub>F</sub>	  	   	715 855 1000 1250	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V <sub>R</sub> = 75V V <sub>R</sub> = 20V	I <sub>R</sub>			2.5 0.025	uA
Typical Diode Capacitance	V <sub>R</sub> =0V,f=1MHz	CD			2	pF
Reverse Recovery time	Irr=1mA, I <sub>R</sub> =I <sub>F</sub> =10mA R <sub>L</sub> =100Ω	trr			4	ns



#### **RATING AND CHARACTERISTIC CURVES**

# FORWARD CURRENT – 0.15 Ampere

**BAV70W** 

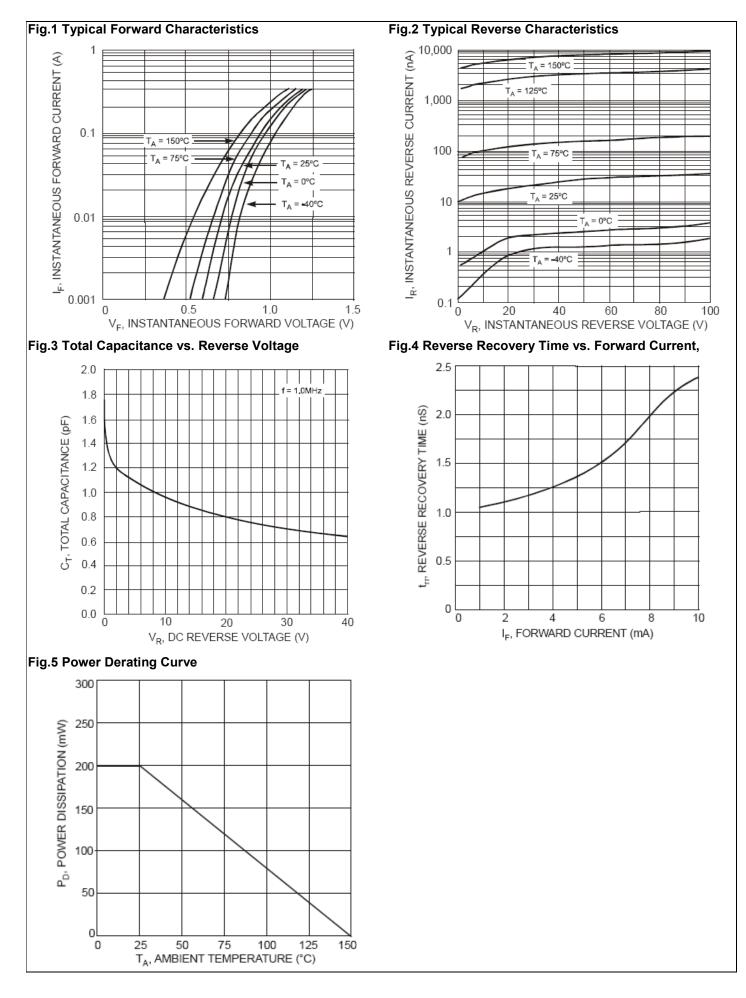
0.650 Bsc

0.700 Ref.

2.40

2 00

#### BAV70W



#### Device Marking :

Device P/N	Marking code	Equivalent Circuit Diagram	
BAV70W	A4		



## **Important Notice and Disclaimer**

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# **New Marking Rule Notification**

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOT-23 / SOT-323 / SOT-523

