

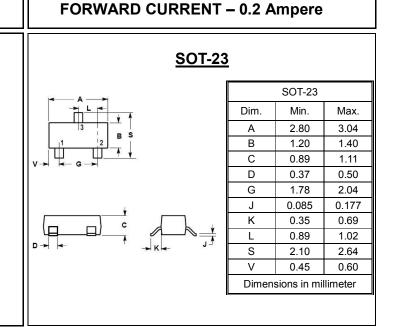
SURFACE MOUNT FAST SWITCHING DIODE

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 – 70 Volts

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

Characteristic	Symbol	BAV99	Units
Non-Repetitive Peak Reverse Voltage DC Blocking Voltage	V _{RM} V _R	70	V
Forward Current	I _F	200	mA
Peak Forward Surge Current @t=10ms	I _{FSM}	500	mA
Power Dissipation	PD	225	mW
Thermal Resistance, Junction to Ambient	$R_{\Theta_{JA}}$	556	°C /W
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

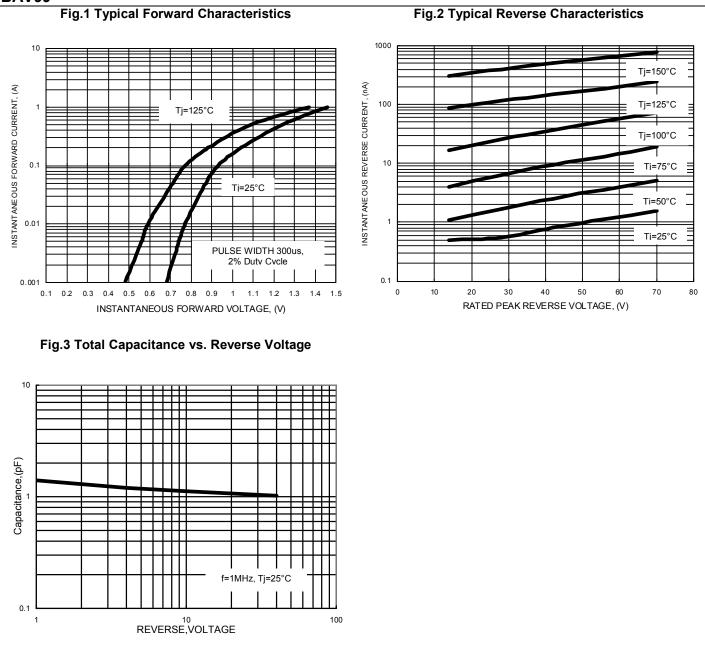
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	I _R = 100uA	V_{BR}	70			V
Maximum Forward Voltage	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$	V _F	 	 	715 855 1000 1250	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 75V	I _R			2.5	uA
Typical Diode Capacitance	V _R =1V,f=1MHz	CD			1.5	pF
Reverse Recovery time	Irr=1mA, I _F =I _R =10mA, R _L =100 Ω	trr			6	nS

REV. 4, Jan-2013, KSYR40

BAV99

RATING AND CHARACTERISTIC CURVES BAV99



ITEON

Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAV99	A7	3 0



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