

SURFACE MOUNT FAST SWITCHING DIODE

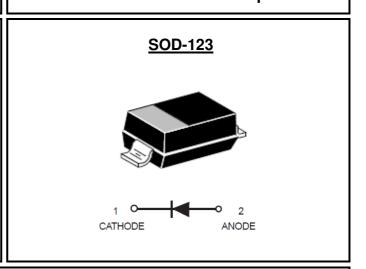
REVERSE VOLTAGE – 250 Volts FORWARD CURRENT – 0.2 Amperes

FEATURES

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

MECHANICAL DATA

- Case: SOD-123 plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.), "Halogen-free"
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant
- •Marking Code : JS
- Weight: 11.67m grams (Approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Continuous reverse voltage	V_R	250	V
Peak forward current		200	mA
Peak Forward Surge current @ t=<=1ms.Duty:25%		625	mA
Peak Forward Surge current @ t=8/20us	I _{pp}	15	Α
Power dissipation @ Ta = 25°C, Derate above 25°C (Note 1)	P _D	250	mW
Operation and storage temperature range		-55 to +150	∞

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER TEST CONDITION		SYMBOL	VALUE	UNIT
Forward voltage	rd voltage $ \begin{array}{c} I_{F} = 100 \text{ mA} \\ I_{F} = 200 \text{ mA} \end{array} $		1000 1250	mV
Reverse breakdown voltage	I _{BR} =100uA	V_{BR}	250	V
Reverse leakage current	V _R = 200V V _R = 200V @ T _J =150°C	I _R	0.1 100	uA
Typical junction capacitance	$V_R = 0V$, $f = 1MH_Z$	C _D	5	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 1)	RthJ _A	500	°C/W

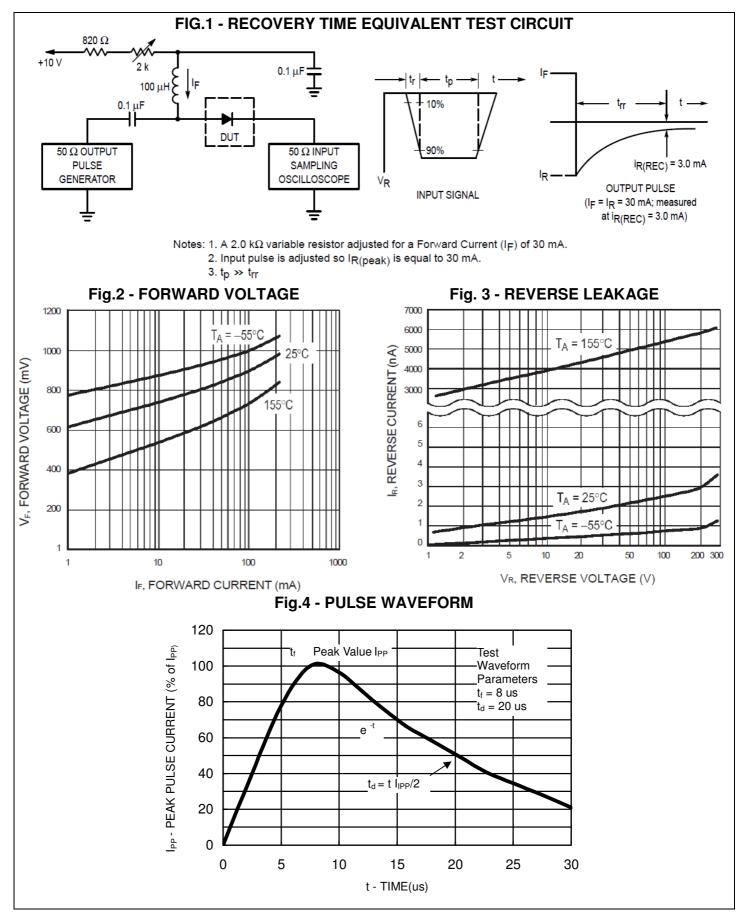
DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	TYP.	UNIT
Reverse recovery time	$IF = IR = 30mA$, $RL = 100\Omega$	T _{RR}	50	ns
Note: REV. 1. Nov2015 KSY			/R96	

(1) Device mounted on FR-5 board, minimum pad

RATING AND CHARACTERISTIC CURVES BAV21W

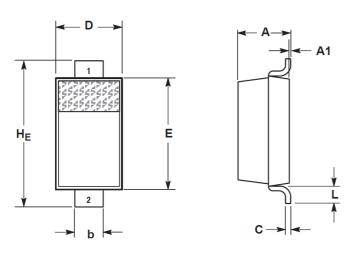






Package Dimensions:

SOD-123

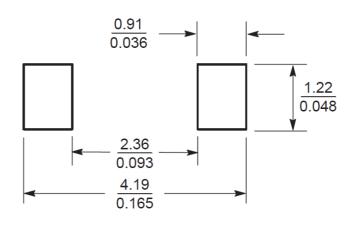


Dim.	INCHES		MILLIMETERS	
	Min.	Max.	Min.	Max.
Α	0.037	0.053	0.94	1.35
A 1	0.000	0.004	0.00	0.10
b	0.020	0.028	0.51	0.71
С		0.006		0.15
D	0.055	0.071	1.40	1.80
Е	0.100	0.112	2.54	2.84
H _E	0.140	0.152	3.56	3.86
٦	0.010		0.25	

Note:

PIN 1. Cathode PIN 2. Anode

Soldering Pad Layout:



SCALE 10:1
$$\left(\frac{\text{mm}}{\text{inches}}\right)$$



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