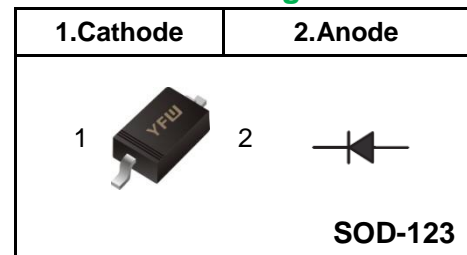


**Silicon Epitaxial Planar Switching Diode**

**Features**

◆Fast switching diode

**Pinning**



**Marking Code**

<b>BAS16W</b>	<b>A6</b>
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**Absolute Maximum Ratings (Ta = 25 °C)**

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Forward Current (Continuous)	$I_F$	250	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	at t = 1 s 0.5	A
		at t = 1 ms 1	
		at t = 1 $\mu$ s 2	
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	- 65 to + 150	°C

**Absolute Maximum Ratings (Ta = 25 °C)**

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	$V_F$	0.715	V
		0.855	
		1	
		1.25	
Reverse Leakage Current at $V_R = 75$ V at $V_R = 25$ V, $T_J = 150$ °C at $V_R = 75$ V, $T_J = 150$ °C	$I_R$	1	$\mu$ A
		30	
		50	
Diode Capacitance at $V_R = 0$ V, f = 1 MHz	$C_{tot}$	2	pF
Reverse Recovery Time at $I_F = 10$ mA to $I_R = 10$ mA, $I_R = 1$ mA, $R_L = 100$ $\Omega$	$t_{rr}$	6	ns

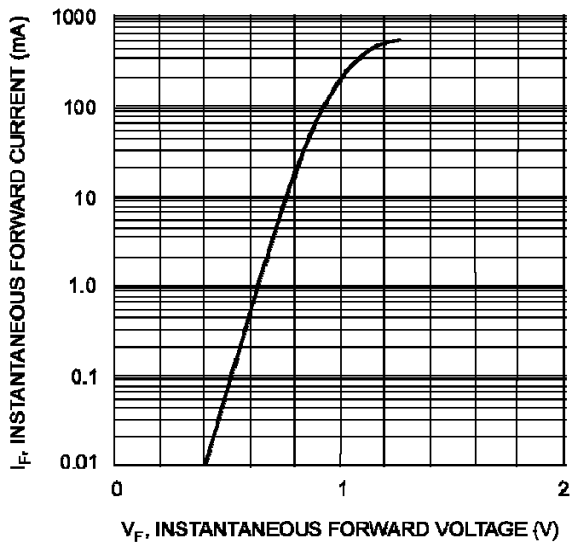


Fig. 1 Forward Characteristics

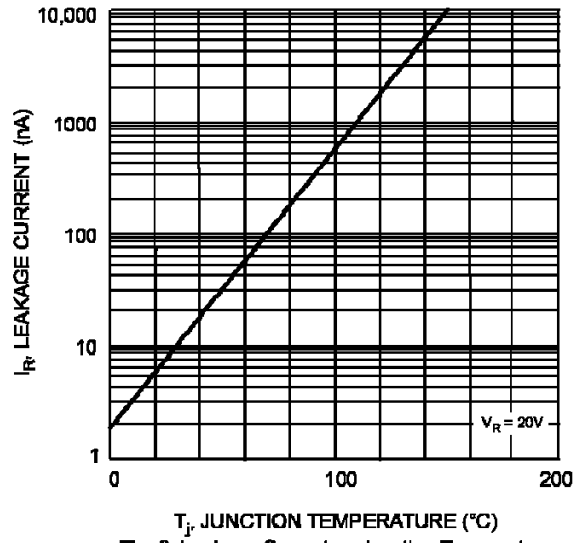


Fig. 2 Leakage Current vs Junction Temperature

**Ordering information**

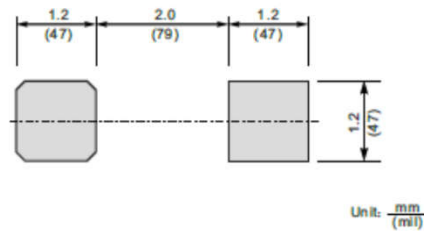
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOD-123**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E1	3.6	3.9	142	154
b	0.5	0.7	20	28
L1	0.25	0.45	10	18
A1	-	0.2	-	8
∠	9°			

**The recommended mounting pad size**



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