

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

➤ Low Forward voltage Drop

➤ Fast Switching

Pinning

1.Cathode	2.Anode	
1 2	- ├ ◀ SOD-123	

Marking Code		
BAT42W	PX	
BAT43W	PY	

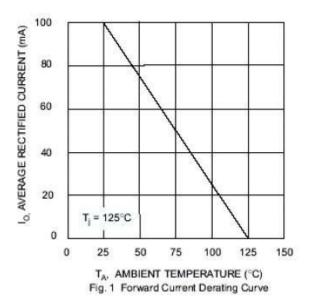
Absolute Maximum Ratings (Ta= 25℃)

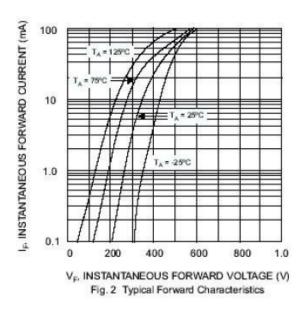
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Reverse Voltage	V _R	30	V
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current at t < 1 s	I _{FRM}	500	mA
Non-repetitive Peak Forward Surge Current at t < 10 ms	I _{FSM}	2	А
Power Dissipation	P _{tot}	200	mW
Thermal Resistance Junction to Ambient	$R_{ heta JA}$	500	°C/W
Operating and Storage Temperature Range	T _J , T _{Stg}	- 55 to + 125	°C

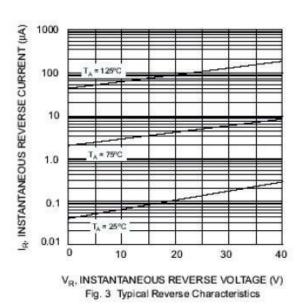
Characteristics at Ta= 25℃

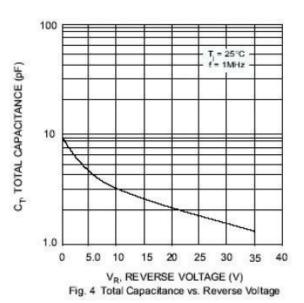
Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA		$V_{(BR)R}$	30	_	٧
Reverse Current at $V_R = 25 \text{ V}$		I _R	-	1	uA
Forward Voltage at I_F = 200 mA at I_F = 10 mA at I_F = 50 mA at I_F = 2 mA at I_F = 15 mA	BAT42W BAT42W BAT43W BAT43W	VF	- - - 0.26 -	1 0.4 0.65 0.33 0.45	V V V V
Total Capacitance at $V_R = 1 V$, $f = 1 MHz$		Ст	-	10	pF
Reverse Recovery Time at I_F = I_R = 10 mA, I_{rr} = 0.1 X I_R , R_L = 100 Ω		t _{rr}	-	5	ns











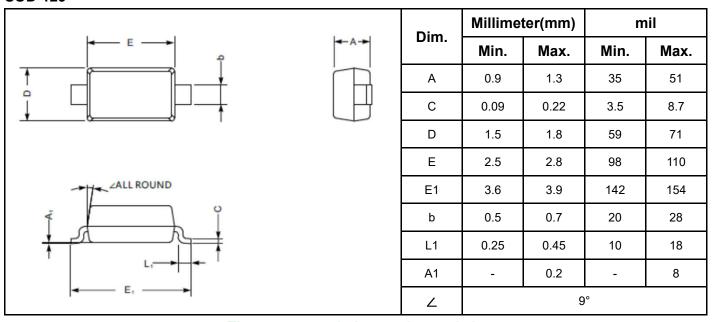


Ordering information

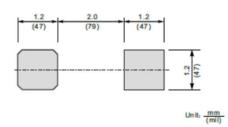
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123



The recommended mounting pad size





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