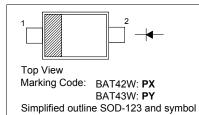
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop
- Fast Switching

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Absolute Maximum Ratings (T_a = 25 °C)

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 _S	- 55 to + 125	°C	

Characteristics at T_a = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$		$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 25 \text{ V}$		I _R	-	500	nA
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	V _F	- - - 0.26 -	1 0.4 0.65 0.33 0.45	V V V V
Total Capacitance at $V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$		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

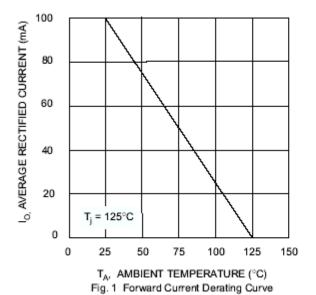


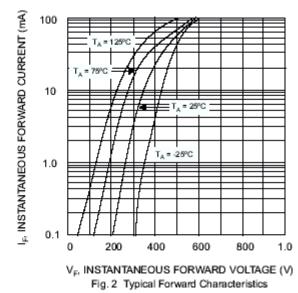


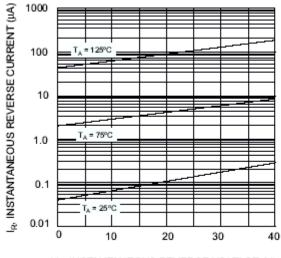


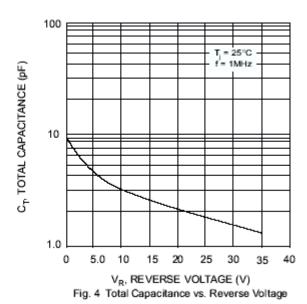


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V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 3 Typical Reverse Characteristics



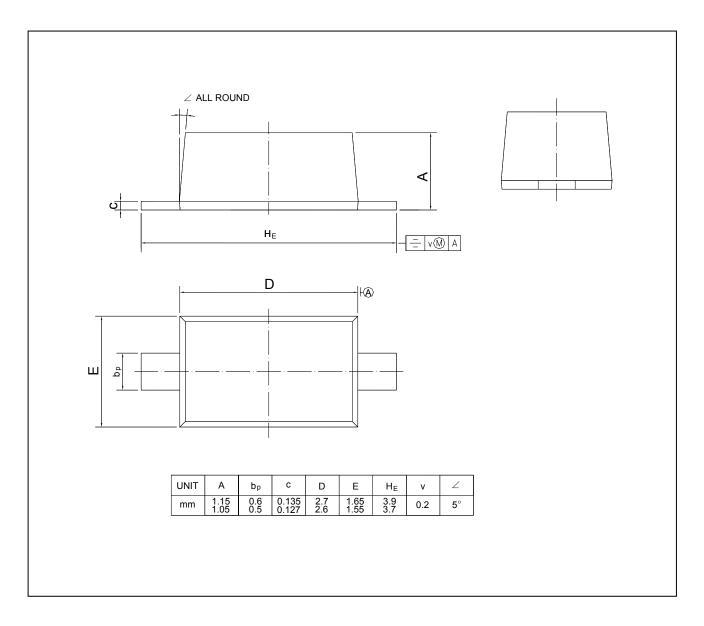




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123





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