1N5817W 查词"1N5817W"供成

1.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features:

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application.

PIN DESCRIPTION 1 Cathode 2 Anode

Top View Marking Code: "A0" Simplified outline SOD-123 and symbol

Mechanical Data:

Case: SOD-123, Plastic Terminals: Solderable per MIL-STD-202, Method 208 Polarity: Cathode Band

Absolute Maximum Ratings (T_a = 25°C)

		1	
	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	20	V
Working Peak Reverse Voltage at I _R =1.0mA	V _{RWM}	20	V
DC Blocking Voltage	V _R	20	V
RMS Reverse Voltage	V _{R(RMS)}	14	V
Average Rectified Output Current at $T_L \mbox{=} 90^\circ \mbox{C}$	Ι _Ο	1.0	А
Power Dissipation	P _{tot}	450	mW
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25	A
Typical Thermal Resistance Junction to Ambient	R _{θJA}	222	°C/W
Operating Temperature Range	Tj	-65 to +125	°C
Storage Temperature Range	Ts	-65 to +150	°C



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Dated : 24/11/2004

PINNING

Characteristics at $T_{amb} = 25^{\circ}C$

		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage (Note 1)	at I _F = 0.1A	V _{FM}	-	-	0.32	V
	at I _F = 1.0A	V _{FM}	-	-	0.45	V
	at I _F = 3.0A	V_{FM}	-	-	0.75	V
Reverse Breakdown Voltage	at I _R =1.0mA	V _{(BR)R}	20	-	-	V
	at V _R =20V	I _{RM}	-	-	1	mA
	at V _R =20V,T _A =100℃		-	-	10	mA
	at V _R =2V		-	10	50	μA
	at V _R =2V, T _A =100℃		-	1	2	mA
	at V _R =3V		-	15	75	μA
	at V _R =3V, T _A =100℃		-	1.5	3	mA
Typical Junction Capacitance at $V_R = 2V$, f = 1MHz		CJ	-	110	-	pF

Notes:

1. Pulse Test: Pulse width $\leq 200 \,\mu$ s, Duty Cycle $\leq 2\%$.



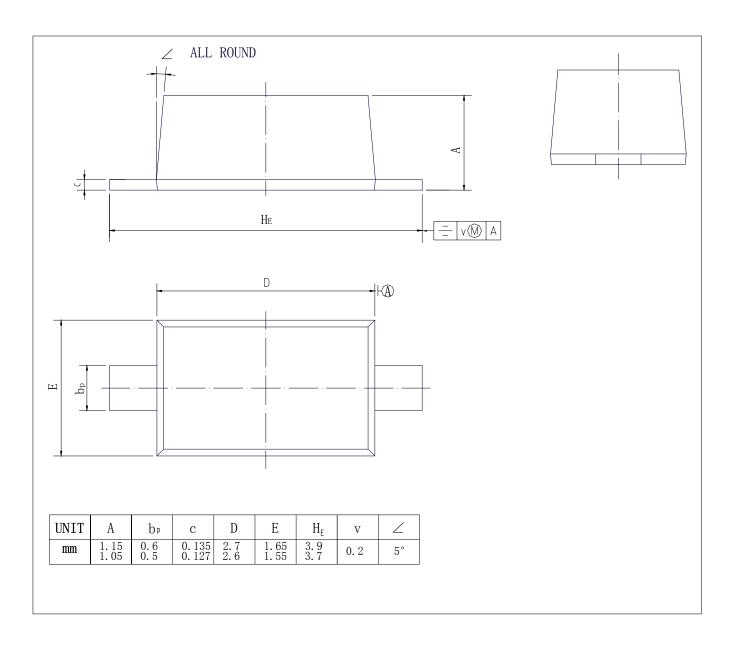




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123





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