

# 1N6263W

## SURFACE MOUNT SCHOTTKY BARRIER DIODE

**Features:**

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion

**Mechanical Data:**

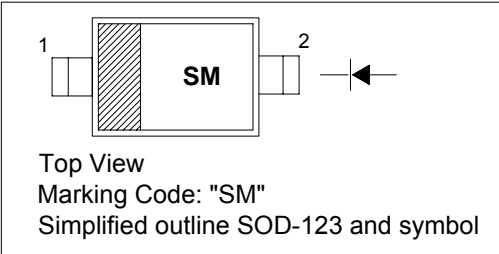
**Case:** SOD-123, Plastic

**Terminals:** Solderable per MIL-STD-202, Method 208

**Polarity:** Cathode Band

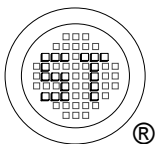
**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



**Absolute Maximum Ratings ( $T_a = 25^{\circ}\text{C}$ )**

	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	60	V
Working Peak Reverse Voltage	$V_{RWM}$	60	V
DC Blocking Voltage	$V_R$	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Forward Continuous Current	$I_F$	15	mA
Power Dissipation	$P_{tot}$	333	mW
Non-Repetitive Peak Forward Surge Current @ $t \leq 1.0s$ @ $t = 10ms$	$I_{FSM}$	50 2.0	mA A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300	$^{\circ}\text{C/W}$
Operating Temperature Range	$T_j$	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_s$	-55 to +150	$^{\circ}\text{C}$



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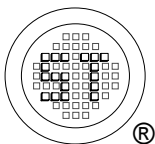


Dated : 12/08/2004

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## Characteristics at T<sub>amb</sub> = 25°C

		Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 10μA		V <sub>(BR)R</sub>	60	-	-	V
Forward Voltage Drop	at I <sub>F</sub> = 1mA	V <sub>FM</sub>	-	-	0.41	V
	at I <sub>F</sub> = 15mA	V <sub>FM</sub>	-	-	1.0	V
Reverse Leakage Current at V <sub>R</sub> = 50V		I <sub>RM</sub>	-	-	200	nA
Total Capacitance at V <sub>R</sub> = 0V, f = 1MHz		C <sub>tot</sub>	-	-	2.2	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 5mA , I <sub>rr</sub> =0.1x I <sub>R</sub> , R <sub>L</sub> =100Ω		t <sub>rr</sub>	-	-	1	ns



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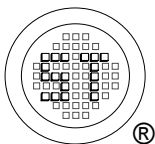
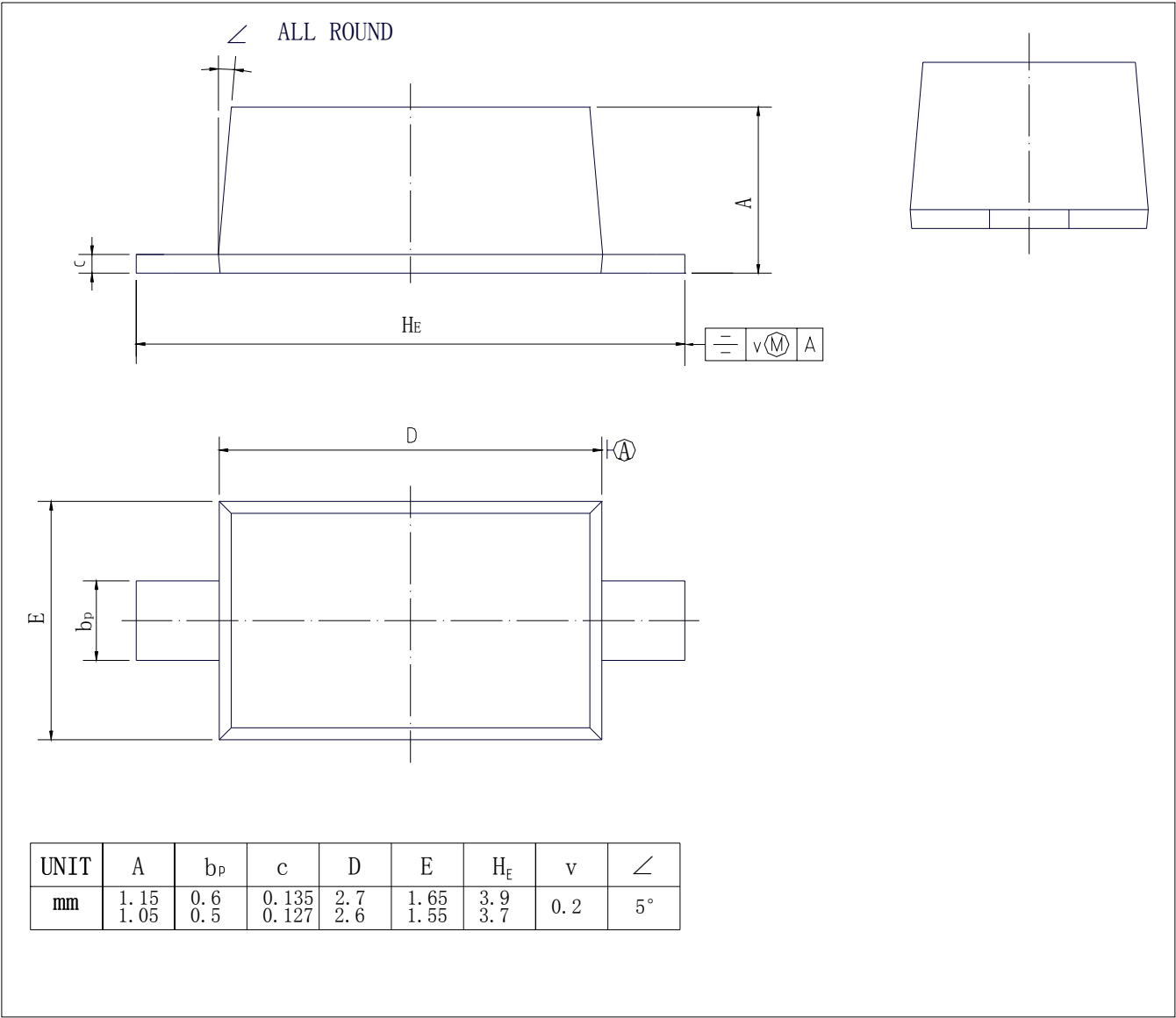
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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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