

**SOT-23 PLASTIC-ENCAPSULATE  
SCHOTTKY DIODE**

**FEATURES**

- \* Power dissipation  
P<sub>D</sub>: □ 350 □ mW (T<sub>amb</sub>=25°C)
- \* Forward current  
I<sub>F</sub>: □ □ 100 □ mA
- \* Reverse voltage  
V<sub>R</sub>: □ 30 □ V
- \* Operating and storage junction temperature range  
T<sub>J</sub>, T<sub>stg</sub>: -55°C to +150°C

**MECHANICAL DATA**

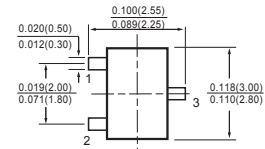
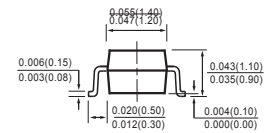
- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.008 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.



**SOT-23**



Dimensions in inches and (millimeters)

**ELECTRICAL CHARACTERISTICS** ( @ T<sub>A</sub> = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Reverse Breakdown Voltage (I <sub>R</sub> =100μA)	V <sub>(BR)</sub>	30	-	-	V
Reverse voltage leakage current (V <sub>R</sub> =25V)	I <sub>R</sub>	-	-	500	nA
Reverse voltage leakage current (V <sub>R</sub> =25V, T <sub>A</sub> = 100°C)		-	-	100	μA
Forward voltage (I <sub>F</sub> =2mA)	V <sub>F</sub>	-	-	0.33	V
Forward voltage (I <sub>F</sub> =15mA)		-	-	0.45	V
Forward voltage (I <sub>F</sub> =100mA)		-	-	1	V
Diode capacitance (V <sub>R</sub> =0V, f=1MHz)	C <sub>tot</sub>	-	-	8	pF
Reverse recovery time (I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>RR</sub> =1.0mA, R <sub>L</sub> =100Ω)	t <sub>rr</sub>	-	-	5	ns

Marking	DB1
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Note 1: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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