

**SMALL SIGNAL DIODE**  
**VOLTAGE RANGE 30 Volts**

**FEATURES**

- \* Fast Switching Speed
- \* Low turn-on voltage

**MECHANICAL DATA**

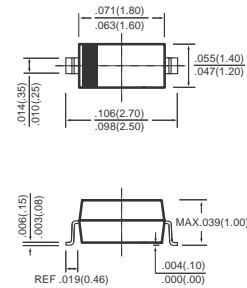
- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.004 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



**SOD-323**



**MAXIMUM RATINGS** (@<sub>TA</sub>=25°C unless otherwise noted)

RATINGS	SYMBOL	SD107WS	UNITS
Reverse Breakdown Voltage @ I <sub>R</sub> =100μA	V <sub>(BR)R</sub>	30	Volts
Maximum Working Peak reverse Voltage	V <sub>RM</sub>	30	Volts
Maximum Forward Continuous Current	I <sub>FM</sub>	100	mAmps
Non-Repetitive Peak Forward Surge Current @t <sub>p</sub> =10mS	I <sub>FSM</sub>	750	mAmps
Maximum Power Dissipation (T <sub>C</sub> = 25°C)	PD	250	mW
Thermal Resistance Junction to ambient air	T <sub>JA</sub>	500	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to + 150	°C

**ELECTRICAL CHARACTERISTICS** ( @ TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse voltage leakage current (V <sub>R</sub> =25V)	I <sub>R</sub>	-	-	1	μA
Forward voltage Pulse Test tp<300μs,δ<2%	(I <sub>F</sub> =2mA)	-	300	-	mV
	(I <sub>F</sub> =15mA)	-	360	-	
	(I <sub>F</sub> =50mA)	-	470	550	
	(I <sub>F</sub> =100mA)	-	580	800	
Diode capacitance (V <sub>R</sub> =10V,f=1MHz)	C <sub>T</sub>	-	-	7	pF

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