

SMALL SIGNAL DIODE
VOLTAGE RANGE 30 Volts

FEATURES

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

MECHANICAL DATA

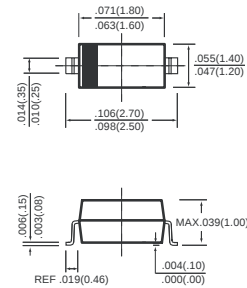
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.004 grams

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@T_A=25°C unless otherwise noted)

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

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

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

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