



SMALL SIGNAL DIODE

VOLTAGE RANGE 30 Volts

FEATURES

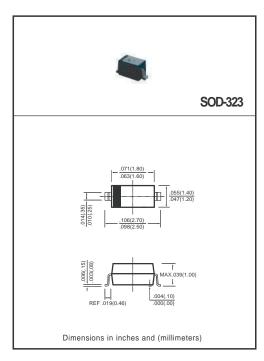
- * Fast Switching Speed
- * Low turn-on voltage

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%.



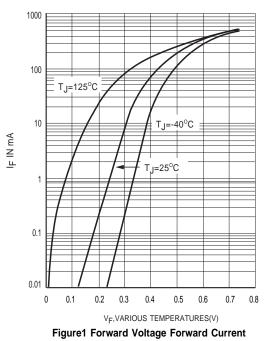
$\textbf{MAXIMUM RATINGS} \ (@T_A = 25^{\circ}C \ unless \ otherwise \ noted)$

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RATINGS	SYMBOL	SD106WS	UNITS
Reverse Breakdown Voltage @ I _R =100μA	V _{(BR)R}	30	Volts
Maximum Working Peak reverse Voltage	VRM	30	Volts
Maximum Forward Comtinuous Current	IFM	200	mAmps
Non-Repetitive Peak Forward Surge Current @tp=10mS	IFSM	1	Amps
Maximum Power Dissipation (T _C = 25°C)	PD	250	mW
Thermal Resistance junction to ambient air	ТөЈА	500	°C/W
Operating and Storage Temperature Range	TJ,TSTG	-65 to + 150	°c

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

CHARACTERISTICS		SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse voltage leakage current	(V _R =25V)	I _R	-	-	5	μА
Forward voltage Pulse Tesx tp<300μs,δ<2%	(I _F =2mA) (I _F =15mA) (I _F =100mA) (I _F =200mA)	VF	-	260 320 420 490	- - - - 550	mV
Diode capacitance	(V _R =10V,f=1MHz)	C _T	-	-	10	pF

RATING AND CHARACTERISTICS CURVES (SD106WS)



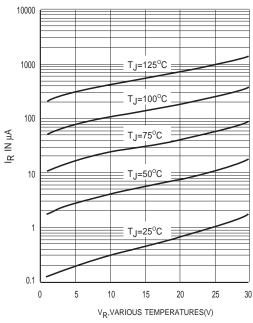


Figure2 Typical Variation of Reverse Current

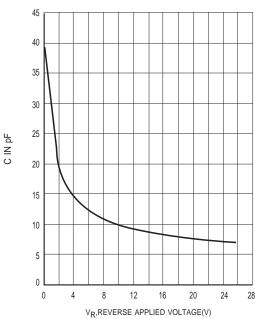


Figure3 Typical Capacitance °C

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