1N4148WS -

SMALL SIGNAL DIODE

VOLTAGE RANGE 75 Volts CURRENT 150 mAmpere

FEATURES

- * Fast Switching Speed
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * For General Purpose Switching Applicationgs
- * High Conductance

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

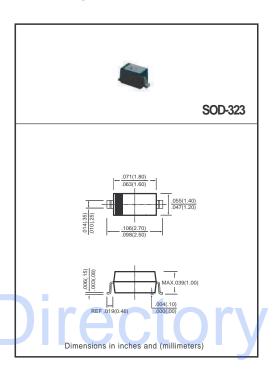
Ratings at 25

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%.



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

RATINGS	SYMBOL	1N4148WS	UNITS
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	75	Volts
Maximum RMS Voltage	VRMS	53	Volts
Maximum Forward Comtinuous Current	IFM	300	mAmps
Maximum Average Forward Rectified Current	10	150	mAmps
Non-Repetitive Peak Forward Surge Current @t=1.0uS @t=1.0s	IFSM	2.0 1.0	Amps
Typical Reverse Recovery Time (Note 1)	Trr	4	nS
Typical Junction Capacitance (Note 2)	CJ	2	pF
Maximum Power Dissipation (Note 3)	PD	200	mW
Typical Thermal Resistance	RθJA	625	°C/W
Operating and Storage Temperature Range	TJ,TSTG	-65 to + 150	°C

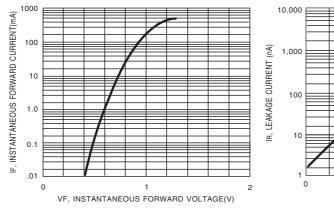
FLECTRICAL CHARACTERISTICS (@Tx=25°C unless otherwise noted)

ELECTRICAL CHARACTERICITION (@TA-25 O difference flored)								
	CHARACTERISTICS		SYMBOL	1N4148WS	UNITS			
	Maximum Instantaneous Forward Voltage	@IF=1.0mA @IF=10mA @IF=50mA @IF=150mA	VF	0.715 0.855 1.0 1.25	Volts			
	Maximum Instantaneous Peverse Current @VR=20V	@ VR=20V	I _R	25	nAmps			
		@VR=75V		1	uAmps			

NOTES : 1. Measured at $I_F=I_R=10\text{mA},I_{RR}=0.1I_R$ And $R_L=100\Omega$. 2. Measured at 1MHz and applied reverse voltage of 0 volts. 3. Part mounted on FR-4 PC board with minimunm recommended pad layout.

2006-3

RATING AND CHARACTERISTICS CURVES (1N4148WS)



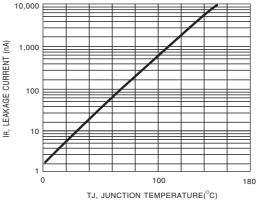


FIG.1 FORWARD CHARACTERISTICS

FIG.2 LEAKAGE CURRENT VS. JUNCTION TEMPERATURE