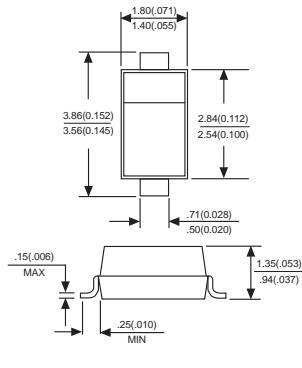




1N4148W

FAST SWITHING DIODES

SOD-123



Dimensions in millimeters and (inches)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: T4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	Limits			UNITS
Maximum repetitive peak reverse voltage	V_{RRM}		100		V
Maximum RMS voltage	V_{RMS}		75		
Reverse Breakdown voltage at $I_R=1\mu A$	$V_{(BR)R}$		75		
Forward continuous current	I_{FM}		300		mA
Average rectified output current	I_o		150		mA
Peak forward current @ $t=1.0ms$	I_{FSM}		2.0		A
Power dissipation	P_d		400		mW
Thermal resistance junction to ambient	R_{eJA}		250		°C/W
Junction temperature	T_j		125		°C
Storage temperature	T_{STG}	-65 to +150			°C

Electrical ratings @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Froward voltage	V_{F1}			0.715	V	$I_F=1.0mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			0.025	uA	at $VR=20V$ $T_j=25^\circ C$
	I_{R2}			1	uA	at $VR=75V$ $T_j=25^\circ C$
	I_{R3}			30	uA	at $VR=25V$ $T_j=150^\circ C$
	I_{R4}			50	uA	at $VR=75V$ $T_j=150^\circ C$
Capacitance between terminals	C_T			5	pF	$VR=0V, f=1.0MHz$
Reverse recovery time	t_{rr}			8	ns	$I_F=I_R=10mA$ $I_{rr}=0.1XI_R, R_L=100\Omega$



RATINGS AND CHARACTERISTIC CURVES 1N4148W

Fig.1 Forward Current Derating Curve

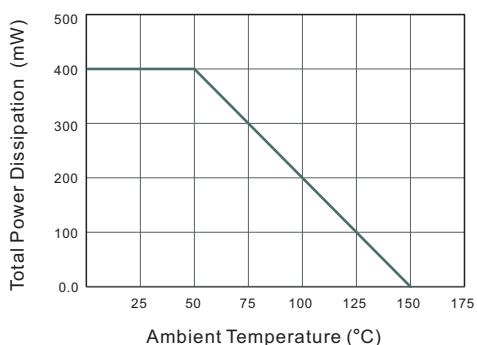


Fig.2 Typical Reverse Characteristics

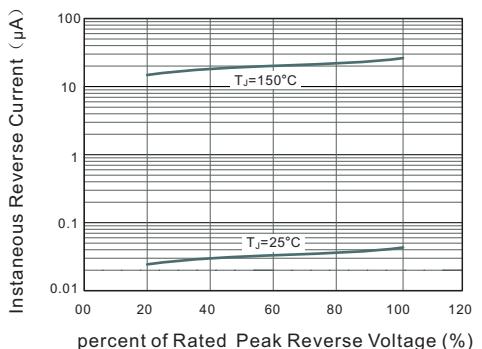


Fig.3 Typical Instantaneous Forward Characteristics

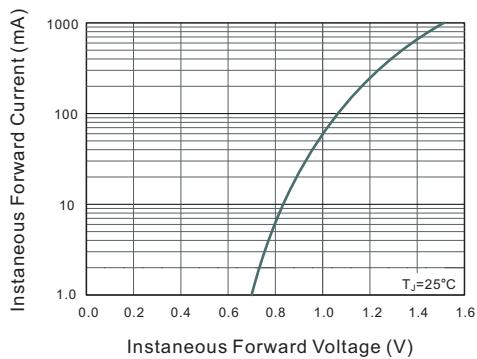
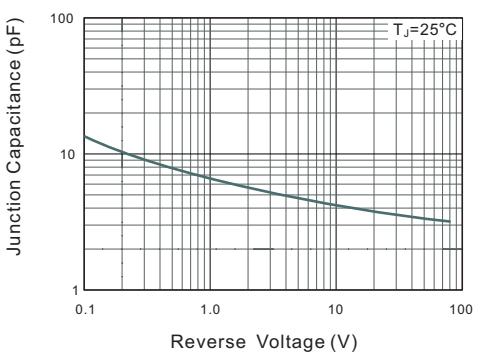


Fig.4 Typical Junction Capacitance



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

