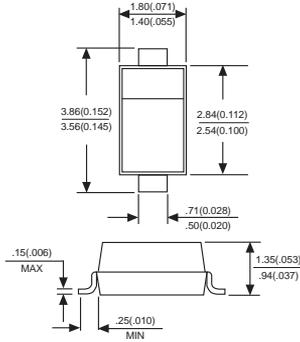




1N4148W

FAST SWITCHING DIODES

SOD-123



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°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 =1μA	V _{(BR)R}	75	
Forward continuous current	I _{FM}	300	mA
Average rectified output current	I _o	150	mA
Peak forward current @τ=1.0ms	I _{FSM}	2.0	A
Power dissipation	P _d	400	mW
Thermal resistance junction to ambient	R _{θJA}	250	°C/W
Junction temperature	T _j	125	°C
Storage temperature	T _{STG}	-65 to +150	°C

Electrical ratings @T_A=25°C

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Forward 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 V _R =20V T _j =25°C
	I _{R2}			1	uA	at V _R =75V T _j =25°C
	I _{R3}			30	uA	at V _R =25V T _j =150°C
	I _{R4}			50	uA	at V _R =75V T _j =150°C
Capacitance between terminals	C _T			5	pF	V _R =0V, f=1.0MHz
Reverse recovery time	t _{rr}			8	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω



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RATINGS AND CHARACTERISTIC CURVES 1N4148W

Fig.1 Forward Current Derating Curve

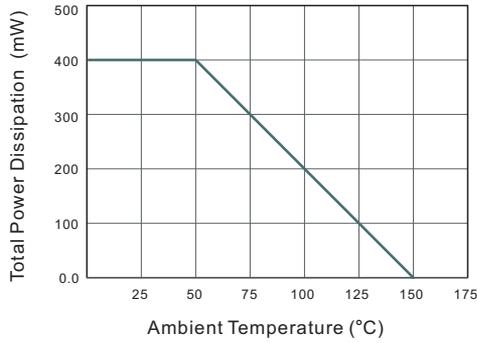


Fig.2 Typical Reverse Characteristics

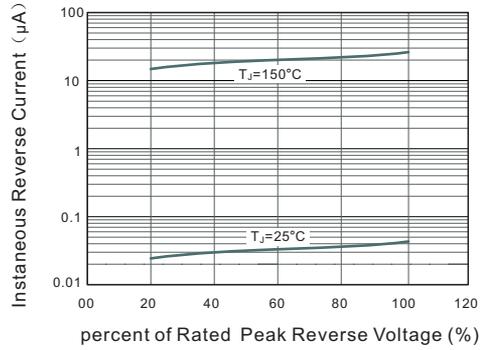


Fig.3 Typical Instaneous Forward Characteristics

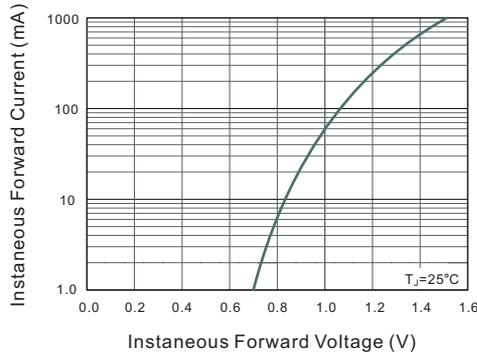
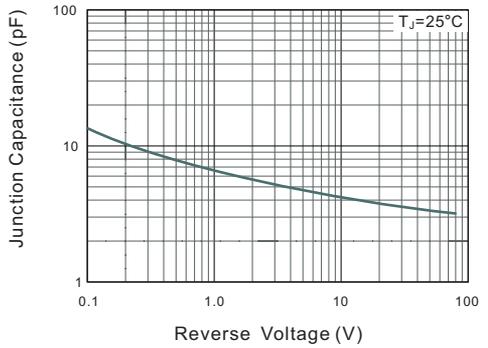


Fig.4 Typical Junction Capacitance



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



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