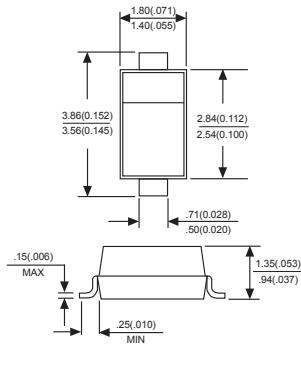


MEI**1N4148W****FAST SWITHING DIODES****SOD-123****FEATURES**

- 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 @ $T_A=25^\circ C$

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	$R_{\theta JA}$		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	$I_F=I_R=10mA$ $I_{rr}=0.1XI_R, R_L=100\Omega$

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RATINGS AND CHARACTERISTIC CURVES 1N4148W

Fig.1 Forward Current Derating Curve

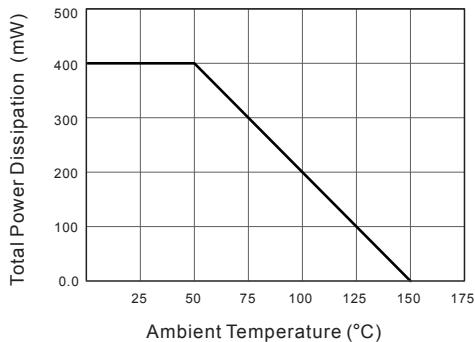


Fig.2 Typical Reverse Characteristics

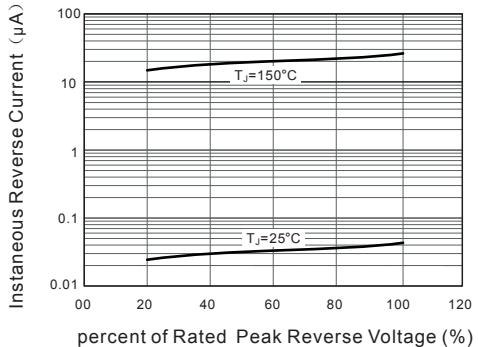


Fig.3 Typical Instantaneous Forward Characteristics

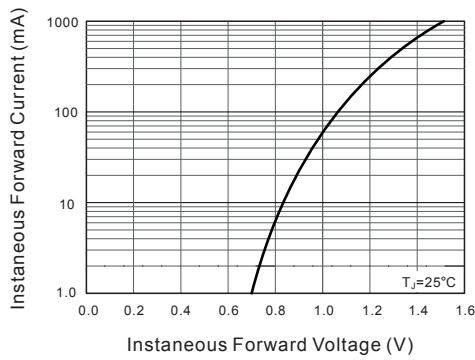
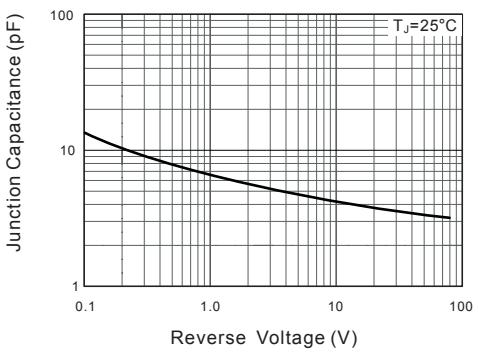


Fig.4 Typical Junction Capacitance



The curve graph is for reference only.