

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Fast Switching Speed
- Matte Tin (Sn) Lead Finish
- Ideally Suited for Automatic Insertion
- High Conductance

MARKING

T4

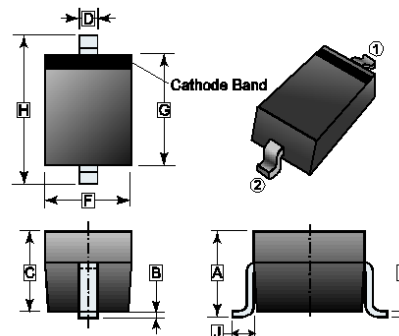
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

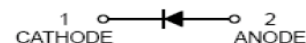
ORDER INFORMATION

Part Number	Type
1N4148PW-C	Lead (Pb)-free and Halogen-free

SOD-123



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.15	REF.	F	1.45	1.80
B	0.10	REF.	G	2.55	2.85
C	1.00	1.30	H	3.55	3.85
D	0.30	0.78	J	0.50	REF.
E	0.05	0.25			



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

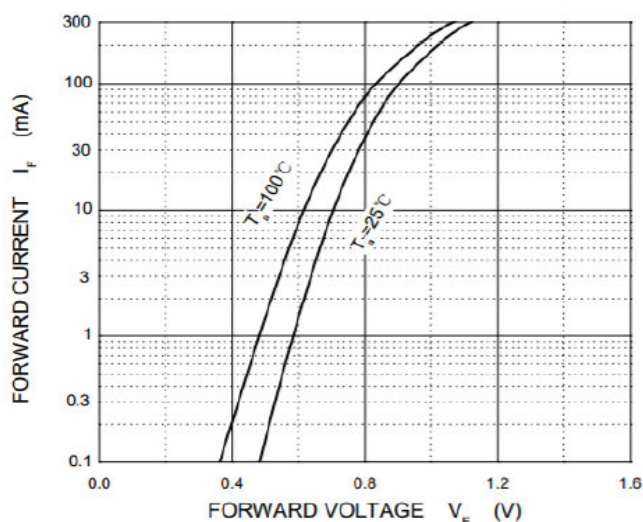
Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _R	100	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	
RMS Reverse Voltage	V _{RMS}	75	
Repetitive Peak Forward Current	I _F	300	mA
Average Rectified Output Current	I _O	150	
Non-Repetitive Peak Forward Surge Current	t=1μs I _{FSM}	2	A
Power Dissipation	P _D	350	mW
Operating Junction & Storage Temperature	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V _F	-	-	0.715	V	I _F =1mA
		-	-	0.855		I _F =10mA
		-	-	1		I _F =50mA
		-	-	1.25		I _F =150mA
Peak Reverse Leakage Current	I _R	-	-	25	nA	V _R =20V, T _J =25°C
		-	-	1	μA	V _R =75V, T _J =25°C
		-	-	50		V _R =75V, T _J =150°C
Junction Capacitance	C _J	-	2	-	pF	V _R =0V, f=1MHz
Reverse Recovery Time	T _{RR}	-	4	-	nS	I _F =I _R =10mA, I _{rr} =1mA, R _L =100Ω

CHARACTERISTIC CURVES

Forward current(I_F) vs Forward voltage(V_F)



Reverse current(I_R) vs Reverse voltage(V_R)

