



ZIBO MICRO COMMERCIAL
COMPONENTS CORP.



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1N4148WCS

Features

- High speed switching diode
- Small Surface Mount Type
- High Reliability with High Surge Current Handing Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

90Volts High Speed Switching Diodes

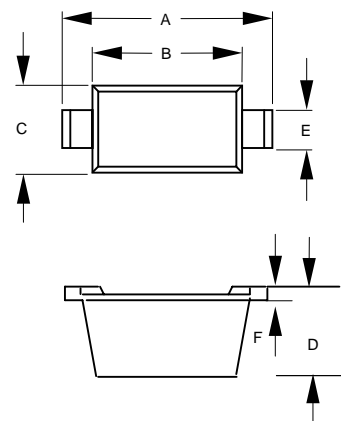
Mechanical Data

- Case: SOD-923
- Marking: 7
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

Maximum RMS Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	90	V
Average Forward Rectified Current	I_O	100	mA
Peak Forward Current	I_{FM}	225	mA
Surge Current(1S)	I_{surge}	500	mA
Total Power Dissipation	P_{TOT}	150	mW
Storage Temperature Range	T_{STG}	-55 to +150	°C
Junction Temperature	T_j	150	°C

SOD-923

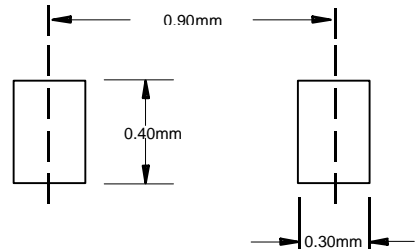


Electrical Characteristics @ 25°C Unless Otherwise Specified

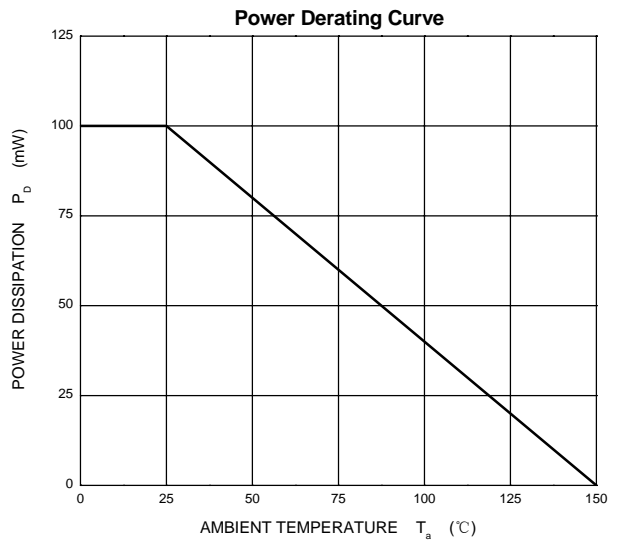
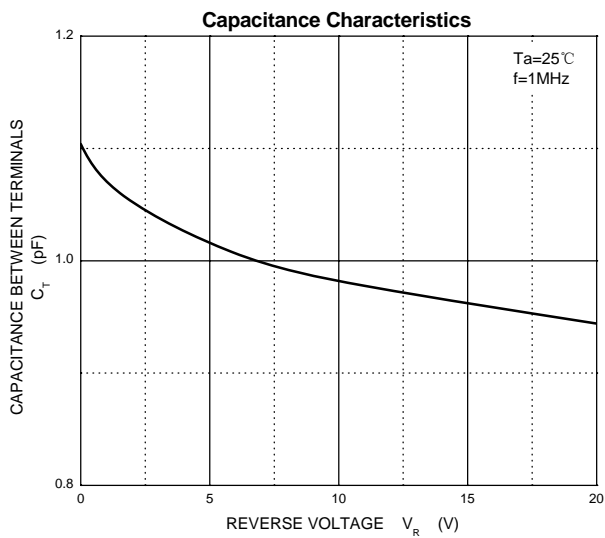
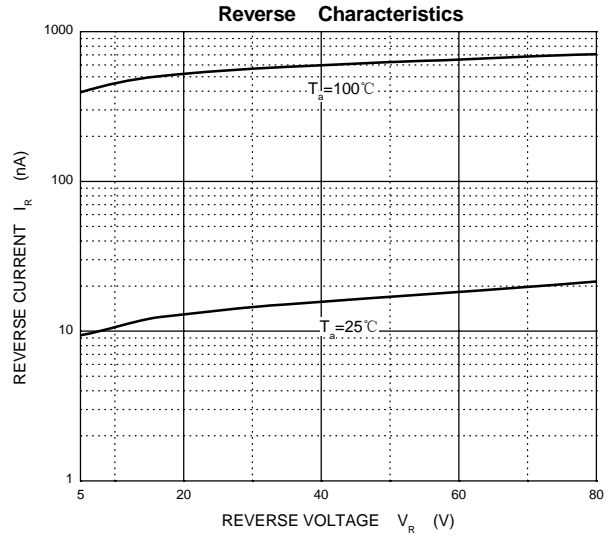
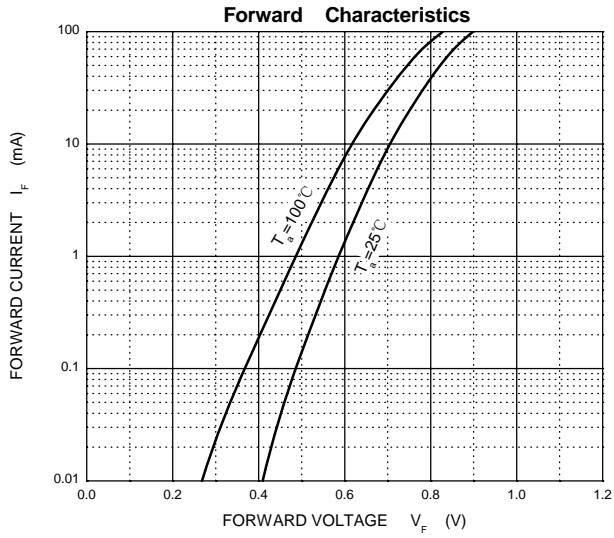
Maximum Instantaneous Forward Voltage	V_F	1.20V	$I_{FM} = 100mA;$ $T_J = 25^\circ C$
Maximum Average Reverse Current	I_R	0.1uA	$V_R=80Volts$ $T_J = 25^\circ C$
Capacitance between Terminals	C_T	3.0pF	Measured at 1.0MHz, $V_R=0.5V$
Reverse Recovery Time	T_{rr}	4nS	$I_F=10mA$ $V_R = 6V, R_L=100 \Omega$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.037	.041	0.95	1.05	
B	.030	.033	0.75	0.85	
C	.022	.026	0.55	0.65	
D	.014	.017	0.36	0.43	
E	.006	.010	0.15	0.25	
F	.003	.007	0.07	0.17	

SUGGESTED SOLDER PAD LAYOUT



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;8Kpcs/Reel

*****LIFE SUPPORT*****

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.