

200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package General Purpose Application Fast Switching Diode

Specification Features:

- Fast Switching Device (T_{RR} <4.0 nS)
- General Purpose Diodes
- Extremely Small SOD-523 Package
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
PD	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
lo	Continuous Forward Current	150	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current (Pulse Width=1us)	2	А
I ² T	Typical Current Squared Time	0.02	A ² S



1N4148WT

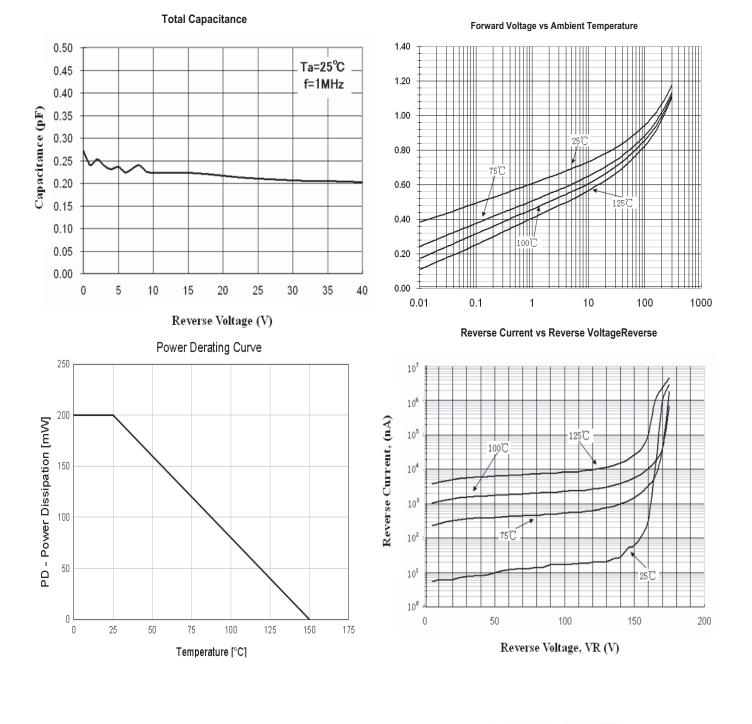
DEVICE MARKING CODE:

Device Type	Device Marking		
1N4148WT	E1		
1N4448WT	E2		
1N914BWT	E3		

These ratings are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics TA = 25°C unless otherwise noted

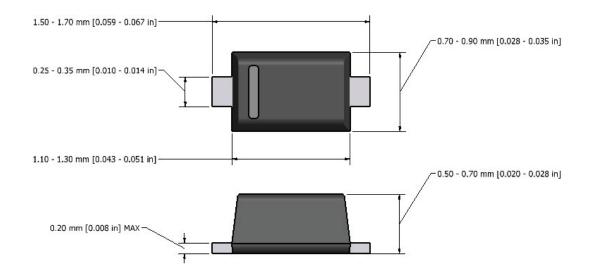
Symbol	Parameter		Test Condition	Limits		Unit	
		Test Condition	Min	Max	Unit		
Bv	Breakdown Voltage	I _R =100μA	100		Valta		
		I _R =5μA	75		Volts		
I _R	Reverse Leakage Currer	ıt	V _R =20V		25	nA	
		V _R =75V		5	μA		
V _F	Forward Voltage	1N4448WT, 1N914BWT	I _F =5mA	0.62	0.72		
		1N4148WT	I _F =10mA		1.0	Volts	
		1N4448WT, 1N914BWT	I _F =100mA		1.0		
T _{RR}	Reverse Recovery Time	I _F =10mA					
		I _R =60mA		4	nS		
		R _L =100?		4			
		I _{RR} =1mA					
С	Capacitance		V _R =0V, f=1M _{HZ}		4	pF	



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RATING AND CHARACTERISTICS CURVES (1N4148WT)

Flat Lead SOD-523 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	REEL DIA	CARTON SIZE	EA PER	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	(mm)	CARTON	WEIGHT(Kg)
SOD-523	-T	5,000			178	386*265*215	180,000	

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