

1N4148WTV 1N4448WTV 1N914BWTV

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

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	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
Ιο	Continuous Forward Current	150	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current (Pulse Width=1us)	2	Α

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

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
- P/N suffix V means AEC-Q101qualified, eg:1N4148WTV
- P/N suffix V means Halogen-free

Green Product



SOD-523 Flat Lead



ELECTRICAL SYMBOL

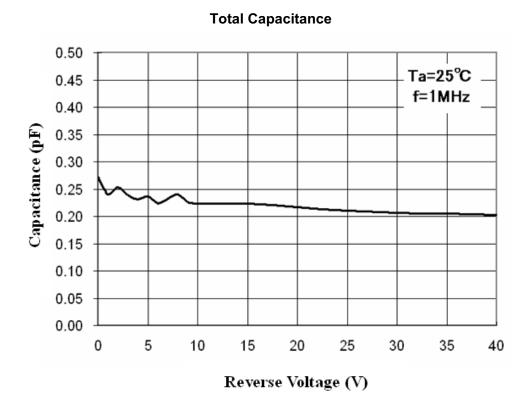
DEVICE MARKING CODE:

Device Type	Device Marking			
1N4148WT	T4			
1N4448WT	T5			
1N914BWT	T6			

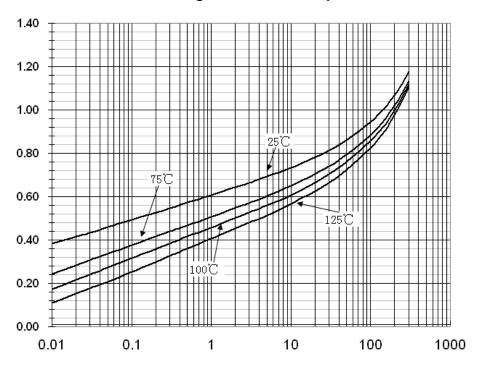
Flectrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Danier of an		T4 O	Limits				
	Parameter		Test Condition	Min	Max	Unit		
B _V	Breakdown Voltage		I _R =100μA	100		Velte		
			I _R =5µA	75		Volts		
I _R	Reverse Leakage Current		V _R =20V		25	nA		
			V _R =75V		5	μΑ		
V _F	Forward Voltage 1N4448WT, 1N914BV	Т	I _F =5mA	0.62	0.72			
	1N414	BWT	I _F =10mA		1.0	Volts		
	1N4448WT, 1N914	BWT	I _F =100mA		1.0			
T_{RR}	Reverse Recovery Time		I _F =10mA					
			I _R =60mA		_	~.0		
			R_L =100 Ω		4	nS		
			I _{RR} =1mA					
С	Capacitance		V _R =0V, f=1M _{HZ}		4	pF		

RATING AND CHARACTERISTICS CURVES (1N4148WTV,1N4448WTV,1N914BWTV)

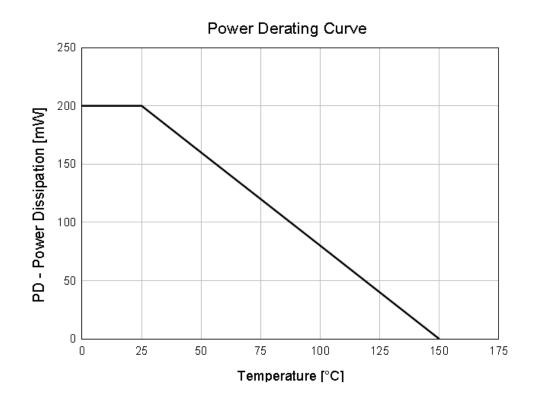


Forward Voltage vs Ambient Temperature

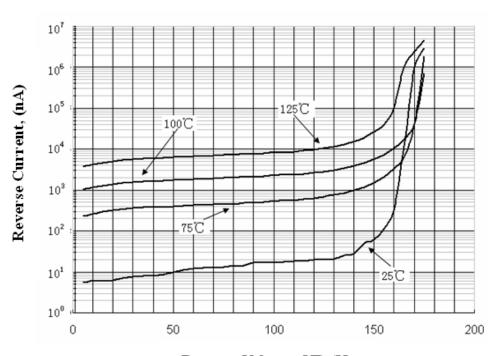




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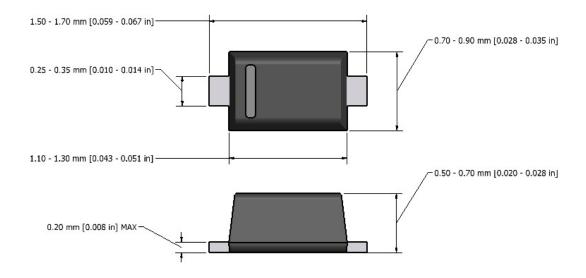
Reverse Current vs Reverse VoltageReverse



Reverse Voltage, VR (V)



Flat Lead SOD-523 Package Outline



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



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-523	-Т	8,000				178	390*205*31	320,000	6.16

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