

Features

- · Fast Switching Speed
- · Surface Mount Package Ideally Suited for Automatic Insertion
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2):625°C/W Junction to Ambient

	MCC Part Number	Repetitive Peak Reverse Voltage VRRM	RMS Reverse Voltage VR(RMS)	DC Blocking Voltage VR	
11	N4148WX	8WX 100V		100V	

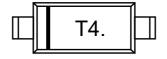
Parameter	Symbol	Value
DC Reverse Voltage	V_R	100V
Working Peak Reverse Voltage	V_{RWM}	100V
Forward Continuous Current	I _{FM}	300mA
Average Rectified Output Current	I _O	150mA
Peak Forward Surge Current (t=1µs)		2A
(t=1s)	I _{FSM}	1A
Power Dissipation	P_D	200mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

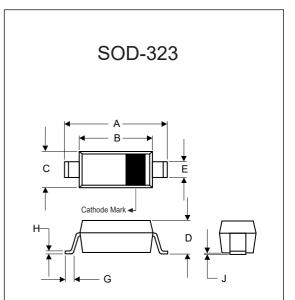
2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code



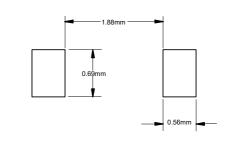


200mW High Speed Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
Dilvi	MIN	MAX	MIN	MAX	NOIL
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





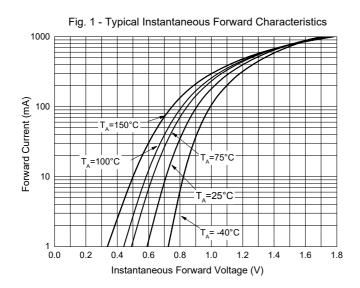
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

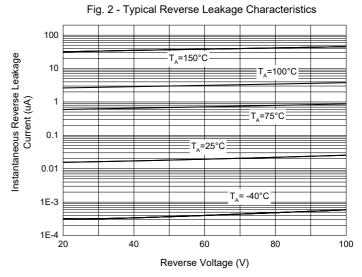
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	100			V
	V _F	I _F =1mA			0.715	V
Forward Voltage		I _F =10mA			0.855	V
Forward Voltage		I _F =50mA			1	V
		I _F =150mA			1.25	V
	I _R	V _R =20V, T _J =25°C			25	nA
Reverse Current		V _R =75V, T _J =25°C			1	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 ^*I_R, R_L = 100 \Omega$			4	ns

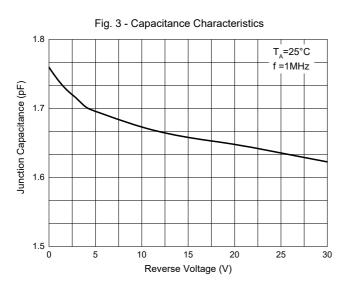
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

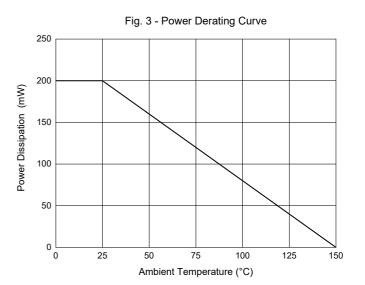


Curve Characteristics











Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		
Part Number-13P	Tape&Reel: 10Kpcs/Reel		

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