NOT RECOMMENDED FOR NEW DESIGNS
USE 1N4148W-TP

Micro Commercial Components

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DL4148

500mW High Speed Switching Diode 100 Volt

Features

- Low Current Leakage,Low Cost
- Compression Bond Construction
- Surface Mount Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

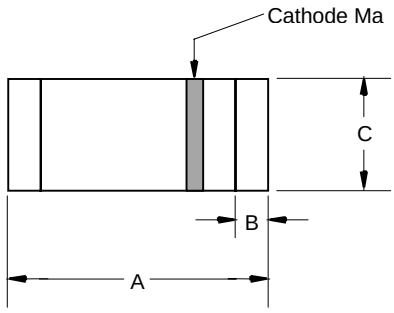
- Operating Temperature: -65℃ to +175℃
- Storage Temperature: -65℃ to +175℃
- Maximum Thermal Resistance: 500K/W Junction To Ambient Tested on PC Board 50mm x 50mm x 1.6mm

Electrical Characteristics @ 25℃ Unless Otherwise Specified

Reverse Voltage	V_R	75V	
Breakdown Voltage	V_{BR}	100V	I_R =100 μA
Average Forward Current	I_O	150mA	
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	175°C	
Peak Forward Surge Current	I_{FSM}	2.0A	t_p = 1.0 μs
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 10mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 5.0 μA 50μA	V_R=20V; T_J = 25℃ V_R=75V; T_J = 25℃ V_R=20V; T_J =150℃
Maximum Junction Capacitance	C_J	4.0pF	Measured at 1.0MHz, V_R=0V
Maximum Reverse Recovery Time	T_{rr}	4.0ns	I_F=10mA; V_R = 6V R_L=100Ω

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 7(c)-I.

MiniMELF



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	∅

SUGGESTED SOLDER PAD LAYOUT

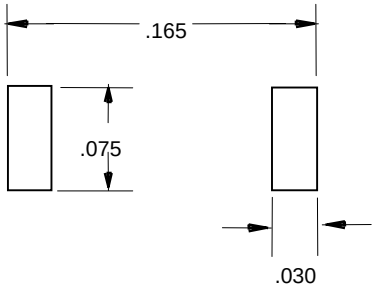
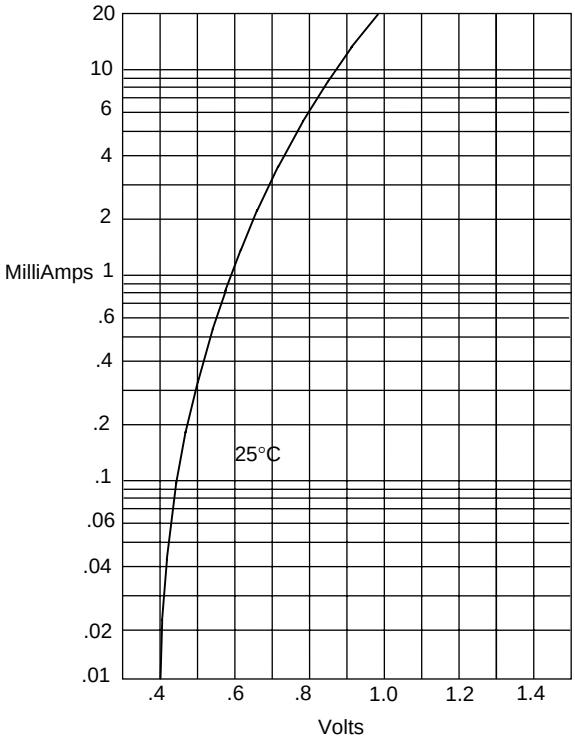
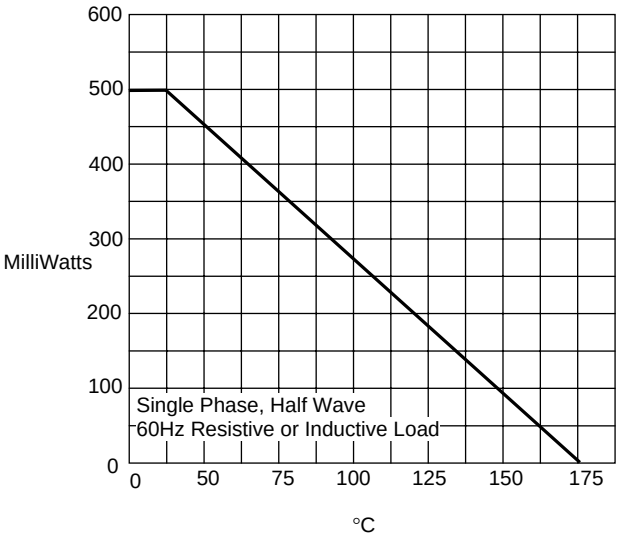


Figure 1
Typical Forward Characteristics



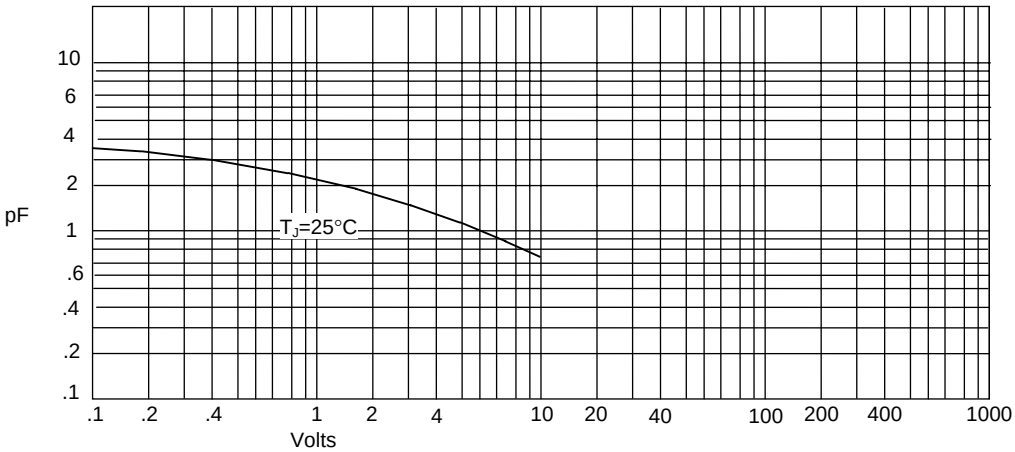
Instantaneous Forward Current - MilliAmperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



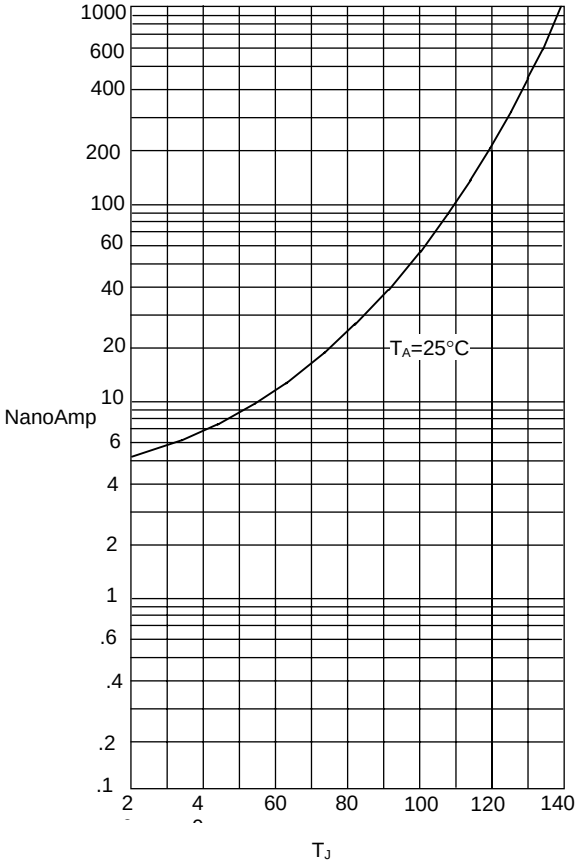
Admissable Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



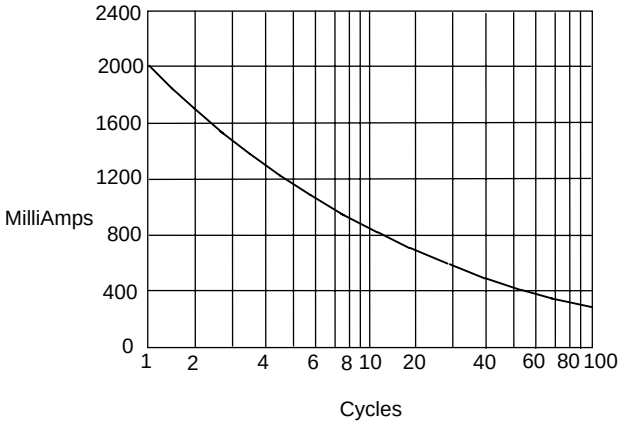
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes *versus*
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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