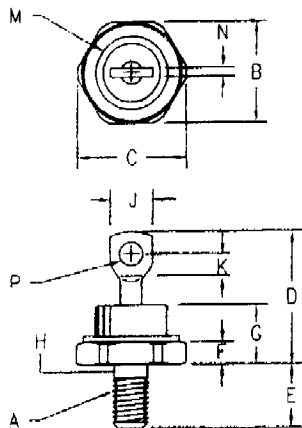


New Jersey Semi-Conductor Products, Inc.

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1N6097
1N6098

- Notes:
1. Full threads within 2 1/2 threads
2. Standard Polarity: Stud is Cathode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	----	----	----	----	1/4-28
B	.669	.687	17.19	17.44	
C	----	.794	----	20.16	
D	----	1.000	----	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	----	.450	----	11.43	
H	.220	.249	5.58	6.32	
J	----	.375	----	9.52	
K	.156	----	3.96	----	
M	----	.515	----	13.08	Dia
N	----	.080	----	2.03	
P	.140	.175	3.56	4.45	Dia.

(D05)

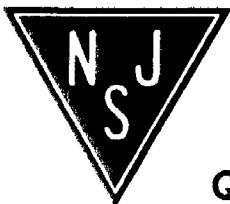
Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N6097	30V	30V
1N6098	40V	40V

- Schottky Barrier Rectifier
- 150°C Junction Temperature
- Guard Ring Protection
- VRRM - 30 to 40 volts
- Reverse Energy Tested

Electrical Characteristics		
Average forward current	I _{F(AV)} 50 Amps	T _C = 70°C, square wave, R _{θJC} = 1.0°C/W
Maximum surge current	I _{FSM} 800 Amps	8.3 ms, half sine T _J = 150°C
Max repetitive peak reverse current	I _{R(OV)} 2 Amps	f = 1 KHz, 25°C, 1 μsec square wave
Max peak forward voltage	V _{FM} .60 Volts	I _{FM} = 10A; T _J = 25°C*
Max peak forward voltage	V _{FM} .86 Volts	I _{FM} = 157A; T _J = 70°C*
Max peak reverse current	I _{RM} 250 mA	VRRM, T _J = 125°C*
Max peak reverse current	I _{RM} 2 mA	VRRM, T _J = 25°C
Max junction capacitance	C _J 7000 pF	V _R = 1.0V, T _J = 25°C

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temp range	T _{STG}	-65°C to 150°C
Operating junction temp range	T _J	-65°C to 150°C
Max thermal resistance	R _{θJC}	1.0°C/W Junction to case
Max mounting torque		30 inch pounds
Weight		0.54 ounce (15.3 grams) typical



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

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