New Jersey Semi-Conductor Products, Inc.

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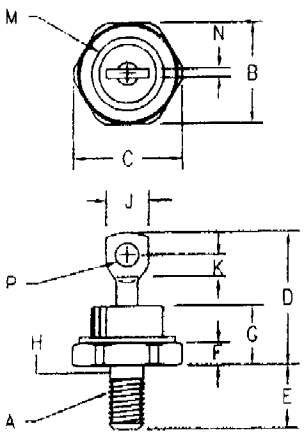
1N6097
1N6098



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

Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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
- V_{RRM} – 30 to 40 Volts
- Reverse Energy Tested

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 50 Amps	T_C = 70°C, square wave, $R_{\theta JC}$ = 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	V_{RRM}, T_J = 125°C*
Max peak reverse current	I_{RM} 2 mA	V_{RRM}, T_J = 25°C
Max junction capacitance	C_J 7000 pF	V_R = 4.0V, 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	$R_{\theta JC}$	1.0°C/W Junction to case
Max mounting torque		30 inch pounds
Weight		0.54 ounce (15.3 grams) typical