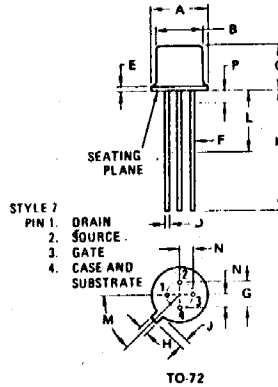


**3N140 (SILICON)**  
N-CHANNEL  
DUAL-GATE  
MOS FIELD-EFFECT  
TRANSISTOR



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	5.31	5.84	0.209	0.230
B	4.52	4.95	0.178	0.195
C	4.32	5.33	0.170	0.210
D	0.41	0.53	0.016	0.021
E	-	0.76	-	0.030
F	0.41	0.48	0.016	0.019
G	2.34 BSC	-	0.090 BSC	-
H	0.91	1.17	0.036	0.046
J	0.71	1.22	0.028	0.048
K	12.70	-	0.500	-
L	6.35	-	0.250	-
M	45° BSC	-	45° BSC	-
N	1.27 BSC	-	0.050 BSC	-
P	-	1.27	-	0.050

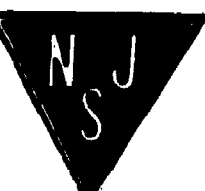
ALL JEDEC dimensions and notes apply

**MAXIMUM RATINGS**

Rating	Symbol	Value	Unit
Drain-Source Voltage	V <sub>DS</sub>	25	Vdc
Drain-Gate Voltage	V <sub>DG</sub>	30	Vdc
Drain Current	I <sub>D</sub>	50	mA
Reverse Gate Current	I <sub>G</sub>	-10	mA
Forward Gate Current	I <sub>GF</sub>	10	mA
Total Device Dissipation @ T <sub>A</sub> = 25°C Derate above 25°C	P <sub>D</sub>	360 2.4	mW mW/°C
Total Device Dissipation @ T <sub>C</sub> = 25°C Derate above 25°C	P <sub>D</sub>	1.2 0.8	mW mW/°C
Lead Temperature	T <sub>L</sub>	300	°C
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-65°C to +175°C	°C

**ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted.)**

Characteristic	Symbol	Min	Max	Unit
<b>OFF CHARACTERISTICS</b>				
Drain-Source Breakdown Voltage (I <sub>D</sub> = 10 μA, V <sub>G1</sub> = V <sub>G2</sub> = -5.0 V)	V <sub>(BR)DSX</sub>	25	-	Vdc
Gate 1-Source Breakdown Voltage (I <sub>G1</sub> = ±10 mA) Note 1	V <sub>(BR)G1SO</sub>	±6	±30	Vdc
Gate 2-Source Breakdown Voltage (I <sub>G2</sub> = ±10 mA) Note 1	V <sub>(BR)G2SO</sub>	±6	±30	Vdc
Gate 1 Leakage Current (V <sub>G1S</sub> = ±5.0 V, V <sub>G2S</sub> = V <sub>DS</sub> = 0)	I <sub>G1SS</sub>	-	±10	nA
Gate 2 Leakage Current (V <sub>G2S</sub> = ±5.0 V, V <sub>G1S</sub> = V <sub>DS</sub> = 0)	I <sub>G2SS</sub>	-	±10	nA
Gate 1 to Source Cutoff Voltage (V <sub>DS</sub> = 15 V, V <sub>G2S</sub> = 4.0 V, I <sub>D</sub> = 20 μA)	V <sub>G1S(off)</sub>	-0.5	-4.0	Vdc
Gate 2 to Source Cutoff Voltage (V <sub>DS</sub> = 15 V, V <sub>G1S</sub> = 0 V, I <sub>D</sub> = 20 μA)	V <sub>G2S(off)</sub>	-0.2	-4.0	Vdc



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