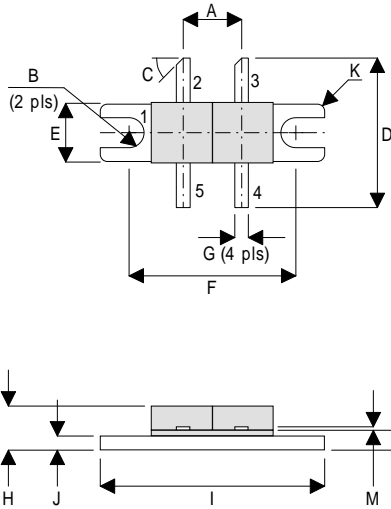


MECHANICAL DATA

**TetraFET**  
**40W – 28V – 1.0GHz**



DIM	mm	Tol.	Inches	Tol.
A	6.45	0.13	0.254	0.005
B	1.65R	0.13	0.65R	0.005
C	45°	5°	45°	5°
D	16.51	0.76	0.650	0.03
E	6.47	0.13	0.255	0.005
F	18.41	0.13	0.725	0.005
G	1.52	0.13	0.060	0.005
H	4.82	0.25	0.190	0.010
I	24.76	0.13	0.975	0.005
J	1.52	0.13	0.060	0.005
K	0.81R	0.13	0.032R	0.005
M	0.13	0.02	0.005	0.001
N	2.16	0.13	0.085	0.005

PIN 1 SOURCE (COMMON) PIN 2 DRAIN 1  
 PIN 3 DRAIN 2 PIN 4 GATE 2  
 PIN 5 GATE 1

ELECTRICAL CHARACTERISTICS (T<sub>case</sub> = 25°C unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
<b>PER SIDE</b>					
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage I = 50mA	65			V
I <sub>DSS</sub>	Zero Gate Voltage Drain Current V = 28V			2	mA
I <sub>GSS</sub>	Gate Leakage Current V = 20V			1	µA
V <sub>GS(th)</sub>	Gate Threshold Voltage I = 10mA	1		7	V
g <sub>m</sub>	* V = 10V I = 2A T = 300µS		1.6		mhos
C <sub>iss</sub>	Input Capacitance V <sub>DS</sub> = 0V V <sub>GS</sub> = -5V		86		pF
C <sub>oss</sub>	Output Capacitance V = 28V		35		pF
C <sub>rss</sub>	Reverse Transfer Capacitance V = 28V		2		pF
V <sub>GS(th)match</sub>	Gate Threshold Matching Voltage Between Sides I <sub>D</sub> = 10mA V <sub>DS</sub> = V <sub>GS</sub>			0.1	V
<b>TOTAL DEVICE</b>					
P <sub>O</sub> = 40W F = 1GHz V = 28V I <sub>DQ</sub> = 1.6A					
Thermal Resistance = 1.0 °C / W					

**HAZARDOUS MATERIAL WARNING**

The ceramic portion of the device between leads and metal flange is beryllium oxide. Beryllium oxide dust is highly toxic and care must be taken during handling and mounting to avoid damage to this area.

**THESE DEVICES MUST NEVER BE THROWN AWAY WITH GENERAL INDUSTRIAL OR DOMESTIC WASTE.**