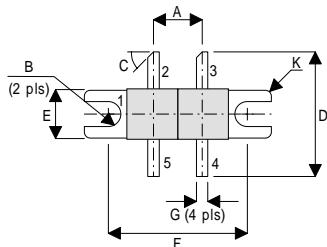


MECHANICAL DATA



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

DIM	mm	Tol.	Inches	Tol.
A	6.45	0.13	0.254	0.005
B	1.65R	0.13	0.065R	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
L	0.13	0.02	0.005	0.001
M	2.16	0.13	0.085	0.005

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^\circ\text{C}$ unless otherwise stated)

P_D	Power Dissipation	117W
BV_{DSS}	Drain – Source Breakdown Voltage *	65V
BV_{GSS}	Gate – Source Breakdown Voltage *	$\pm 20V$
$I_{D(sat)}$	Drain Current *	6A
T_{stg}	Storage Temperature	-65 to 150°C
T_j	Maximum Operating Junction Temperature	200°C

* Per Side

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ELECTRICAL CHARACTERISTICS ($T_{case} = 25^\circ C$ unless otherwise stated)

Parameter	Test Conditions		Min.	Typ.	Max.	Unit
PER SIDE						
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS} = 0$	$I_D = 10\text{mA}$	65		V
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 28\text{V}$	$V_{GS} = 0$		6	mA
I_{GSS}	Gate Leakage Current	$V_{GS} = 20\text{V}$	$V_{DS} = 0$		1	μA
$V_{GS(th)}$	Gate Threshold Voltage *	$I_D = 10\text{mA}$	$V_{DS} = V_{GS}$	1	7	V
g_f	Forward Transconductance *	$V_{DS} = 10\text{V}$	$I_D = 1.2\text{A}$	1.08		S
TOTAL DEVICE						
G_{PS}	Common Source Power Gain	$P_O = 30\text{W}$ $V_{DS} = 28\text{V}$ $f = 1\text{GHz}$	$I_{DQ} = 1.2\text{A}$	10		dB
η	Drain Efficiency			40		%
VSWR	Load Mismatch Tolerance			20:1		—
PER SIDE						
C_{iss}	Input Capacitance	$V_{DS} = 0$	$V_{GS} = -5\text{V}$ $f = 1\text{MHz}$		72	pF
C_{oss}	Output Capacitance	$V_{DS} = 28\text{V}$	$V_{GS} = 0$ $f = 1\text{MHz}$		36	pF
C_{rss}	Reverse Transfer Capacitance	$V_{DS} = 28\text{V}$	$V_{GS} = 0$ $f = 1\text{MHz}$		3	pF

* Pulse Test: Pulse Duration = 300 μs , Duty Cycle $\leq 2\%$

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.

THERMAL DATA

$R_{THj-case}$	Thermal Resistance Junction – Case	Max. 1.5°C / W
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