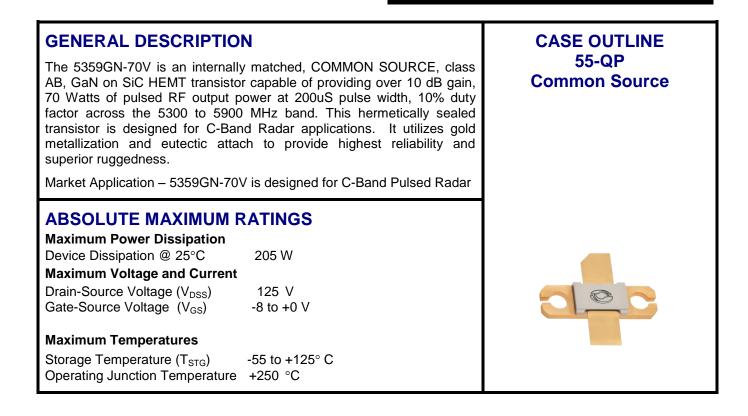


70 Watts - 50 Volts, 200uS, 10% C-Band Radar 5300 - 5900 MHz



#### **ELECTRICAL CHARACTERISTICS @ 25°C**

Symbol	Characteristics	Test Conditions	Min	Тур	Max	Units
Pout	Output Power	Freq=5300,5600,5900 MHz	70			W
Gp	Power Gain	Freq=5300,5600,5900 MHz		11		dB
ηd	Drain Efficiency	Freq=5300,5600,5900 MHz		42		%
Dr	Droop	Freq=5300,5600,5900 MHz		.1		dB
VSWR-T	Load Mismatch Tolerance	Pout=70W, Freq= 5600MHz			3:1	
Өјс	Thermal Resistance	Pulse Width=200uS, Duty=10%			.55	°C/W

• Bias Condition: Vdd=+50V, Idq=30mA constant current (Vgs= -2.0 ~ -4.5V typical)

#### FUNCTIONAL CHARACTERISTICS @ 25°C

I <sub>D(Off)</sub>	Drain leakage current	$V_{gS} = -8V, V_D = 125V$		12	mA
I <sub>G(Off)</sub>	Gate leakage current	$V_{gS} = -8V, V_D = 0V$		4	mA
BV <sub>DSS</sub>	Drain-source breakdown voltage	$V_{gS}$ =-8V, I <sub>D</sub> = 12mA	125		V

Export Classification: ECCN 3A001.b.3.a.4



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#### **CIRCUIT LAYOUT**

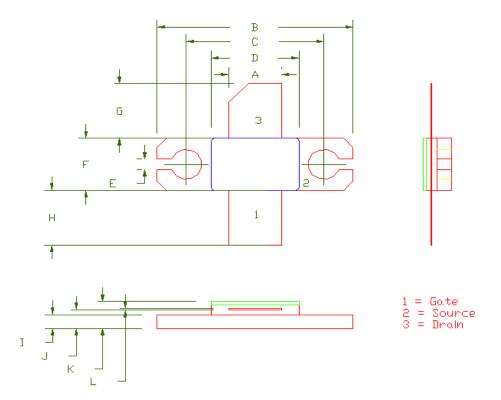


Please contact Microsemi Corporation for more detail



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### **55-QP PACKAGE DIMENSION**



Dimension	Min (mil)	Min (mm)	Max (mil)	Max (mm)
A	213	5.41	217	5.51
В	798	20.26	802	20.37
C	560	14.22	564	14.32
D	258	6.55	362	9.19
E	43	1.09	47	1.19
F	226	5.74	230	5.84
G	235	5.96	239	6.07
Н	235	5.96	239	6.07
I	60	1.52	62	1.57
J	81	2.06	82	2.08
K	116	2.94	118	2.99
L	4	.102	6	.152



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#### **Revision History**

Revision Level / Date	Para. Affected	Description
00 / April 2014	-	Initial Preliminary Release
01 / March 2015	-	Export Status Change to ECCN 3A001.b.3.a.4