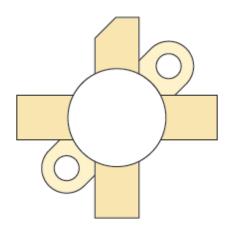
VRF141, VRF141MP

28 V, 150 W, 175 MHz RF Power MOSFET

Product Overview

The VRF141(MP) is a gold-metallized silicon n-channel RF power transistor designed for broadband commercial and military applications requiring high power and gain without compromising reliability, ruggedness, or inter-modulation distortion.



Features

- Improved ruggedness V_{(BR)DSS} = 80 V
- 150 W with 22 dB typical gain at 30 MHz, 28 V
- 150 W with 13 dB typical gain at 175 MHz, 28 V
- Excellent stability and low IMD
- · Common source configuration
- Available in matched pairs (VRF141MP)
- · 30:1 load VSWR capability at specified operating conditions
- · Nitride passivated
- · Refractory gold metallization
- · High voltage replacement for MRF141
- RoHS compliant

1. Device Specifications

This section shows the specifications of the VRF141(MP) device.

1.1 Absolute Maximum Ratings

The following table shows the absolute maximum ratings of the VRF141(MP) device. T_C = 25 °C unless otherwise specified.

Table 1-1. Absolute Maximum Ratings

Symbol	Parameter	Ratings	Unit
V_{DSS}	Drain source voltage	80	V
I _D	Continuous drain current at T _C = 25 °C	20	Α
V _{GS}	Gate-source voltage	±40	V
P_D	Total power dissipation at T _C = 25 °C	300	W
T _{STG}	Storage temperature range	-65 to 150	°C
T _J	Operating junction temperature	200	

1.2 Electrical Performance

The following table shows the static characteristics of the VRF141(MP) device. $T_C = 25$ °C unless otherwise specified.

Table 1-2. Static Characteristics

Symbol	Characteristic	Test Conditions	Min	Тур	Max	Unit
V _{(BR)DSS}	Drain-source breakdown voltage	$V_{GS} = 0 \text{ V, } I_D = 100 \text{ mA}$	80			V
V _{DS(ON)}	On-state drain voltage	I _{D(ON)} = 10 A, V _{GS} = 10 V		1.0	1.4	
I _{DSS}	Zero gate voltage drain current	V _{DS} = 60 V, V _{GS} = 0 V			1.0	mA
I _{GSS}	Gate-source leakage current	V _{DS} = ±20 V, V _{GS} = 0 V			1.0	μΑ
g _{fs}	Forward transconductance	V _{DS} = 10 V, I _D = 5 A	5.0			mhos
V _{GS(th)}	Gate-source threshold voltage	V _{DS} = 10 V, I _D = 100 mA	2.9	3.6	4.4	V

The following table shows the thermal characteristics of the VRF141(MP) device.

Table 1-3. Thermal Characteristics

Symbol	Characteristic	Min	Тур	Max	Unit
$R_{\theta JC}$	Junction-to-case thermal resistance			0.60	°C/W

The following table shows the dynamic characteristics of the VRF141(MP) device. T_C = 25 °C unless otherwise specified.

Table 1-4. Dynamic Characteristics

Symbol	Characteristic	Test Conditions	Min	Тур	Max	Unit
C _{iss}	Input capacitance	V _{GS} = 0 V, V _{DS} = 28 V, f = 1 MHz		400		pF
C _{oss}	Output capacitance			375		
C _{rss}	Reverse transfer capacitance			50		

The following table shows the functional characteristics of the VRF141(MP) device. $T_C = 25$ °C unless otherwise specified.

Table 1-5. Functional Characteristics

Parameter	Test Conditions	Min	Тур	Max	Unit
G _{PS}	f_1 = 30 MHz, f_2 = 30.001 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W _{PEP}	16	20		dB
G _{PS}	f_1 = 175 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W		13		
η	f_1 = 30 MHz, f_2 = 30.001 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W _{PEP}	40	45		%
IMD _(d3)	f_1 = 30 MHz, f_2 = 30.001 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W_{PEP}^{-1}		-30	-28	dB
IMD _(d11)	f_1 = 30 MHz, f_2 = 30.001 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W _{PEP}		-60		
Ψ	f_1 = 30 MHz, f_2 = 30.001 MHz, V_{DD} = 28 V, I_{DQ} = 250 mA, P_{out} = 150 W _{PEP} 30:1 VSWR — all phase angles	No degrada	tion in output	power	

Note:

1. To MIL-STD-1311 Version A, test method 2204B, Two Tone, Reference Each Tone

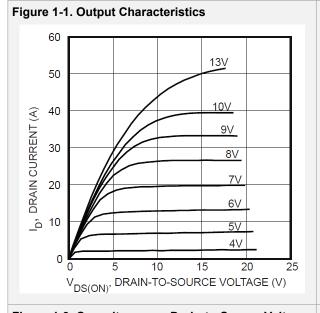
The following table shows the class A characteristics of the VRF141(MP) device. T_C = 25 °C unless otherwise specified.

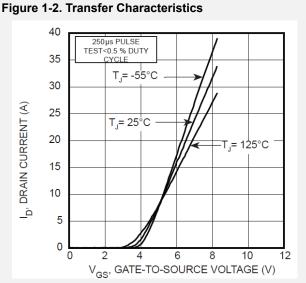
Table 1-6. Class A Characteristics

Parameter	Test Conditions	Min	Тур	Max	Unit
G _{PS}	$f_1 = 30 \text{ MHz}, f_2 = 30.001 \text{ MHz}, V_{DD} = 28 \text{ V}, I_{DQ}$		23		dB
IMD _(d3)	= 4.0 A, P _{out} = 50 W _{PEP}		-50		
IMD _(d11)			- 75		

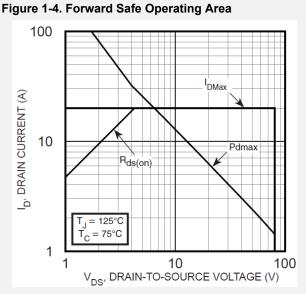
1.3 Typical Performance Curves

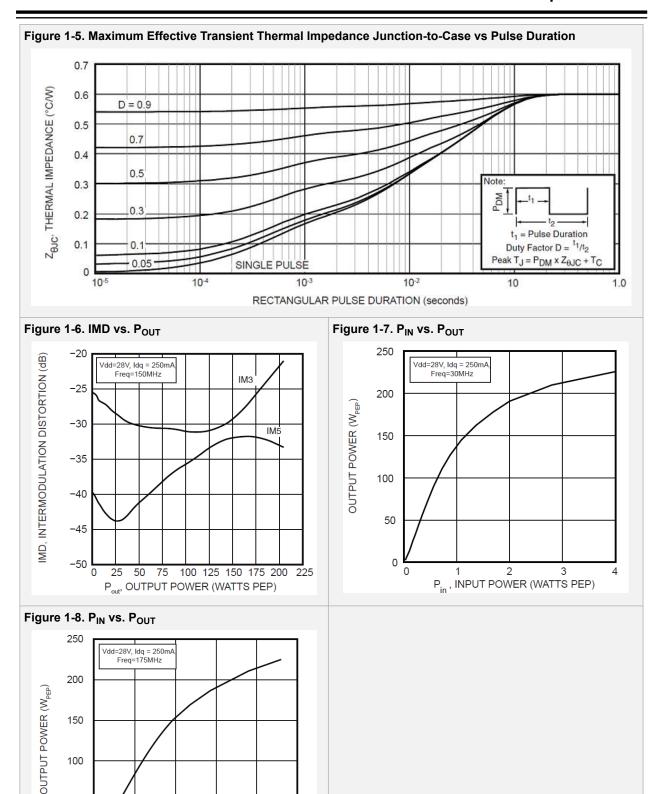
This section shows the typical performance curves of the VRF141(MP) device.





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15 P_{in} , INPUT POWER (WATTS PEP)

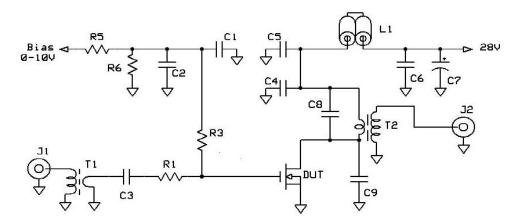
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2. **Test Circuits**

The following figures show the test circuits of the VRF141(MP) device.

Figure 2-1. 30 MHz Test Circuit



C1 - 1uF 50Y tantalum

C2-C6 - 0.1uF 100Y SMT

C7 - 15uF 100V Elect

C8 - 820 pF ATC 100B

T1 - 16:1 bead/tube transformer

T2 = 1:25 bradband bead/tube transformer u=125

C9 - 100 pF ATC 100B

L1 - two ferrite beads on #18

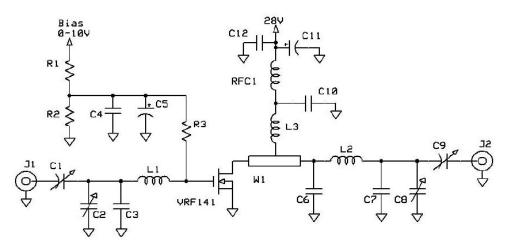
R1 - 1 ohm 1 W SMT

R3 - 200 ohm 1/2 Carbn

R4 - 470 ohm 1W

R5 R6 - 2200 ohm 1/4W

Figure 2-2. 175 MHz Test Circuit



C1, 2, 8, 9 - ARCO 463

C3 C7 - 25 pF ATC 100B

C4 C10 C12 - 0.1uF 100Y SMT

C5 - 1 uF 15WV tant

C6 - 270 pF ATC 100B

C10 - .05 100Y 1206 SMT

C11 - 15uF 100V Elect

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L1 - 3/4" #18 ga into Hairpin

W1 - printed line 0.23"W \times 0.7" L

L2 - 2t #16 ga .25" dia x .25" ~ 35nH

L3 -2 turns #16 ga 5/16" ID tight. ~ 50nH

R1 R2 - 2.2k ohm 1/4W

R3 - 150 ohm 1/4W

RFC1 Fair-Rite 2961666631 (VK200-4B)

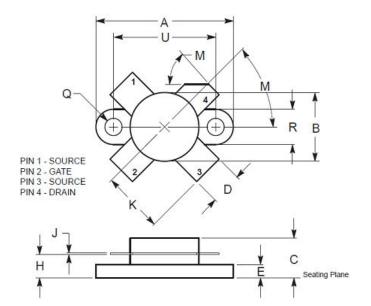
3. Package Specification

This section shows the package specification of the VRF141(MP) device.

3.1 Package Outline Drawing

The following figure illustrates the package outline of the VRF141(MP) device.

Figure 3-1. M174 Package Outline 0.5" SOE



DILL	INC	HES	MILLIM	ETERS
DIM	MIN	MAX	MIN	MAX
Α	0.096	0.990	24.39	25.14
В	0.465	0.510	11.82	12.95
С	0.229	0.275	5.82	6.98
D	0.216	0.235	5.49	5.96
E	0.084	0.110	2.14	2.79
Н	0.144	0.178	3.66	4.52
J	0.003	0.007	0.08	0.17
K	0.435		11.0	
M	45° I	MOM	45° I	MOM
Q	0.115	0.130	2.93	3.30
R	0.246	0.255	6.25	6.47
U	0.720	0.730	18.29	18.54

4. Matched Pair Part Marking

Adding MP at the end of part number specifies a matched pair where $V_{GS(TH)}$ is matched between the two parts. V_{TH} values are marked on the devices per the following table.

Table 4-1. V_{TH} Range Codes

Code	V _{TH} Range	Code	V _{TH} Range
Α	2.900–2.975	M	3.650-3.725
В	2.975–3.050	N	3.725–3.800
С	3.050–3.125	Р	3.800-3.875
D	3.125–3.200	R	3.875–3.950
E	3.200–3.275	S	3.950-4.025
F	3.275–3.350	Т	4.025–4.100
G	3.350-3.425	W	4.100-4.175
Н	3.425–3.500	X	4.175–4.250
J	3.500–3.575	Υ	4.250-4.325
K	3.575–3.650	Z	4.325-4.400

Note: V_{TH} values are based on Microchip measurements at datasheet conditions with an accuracy of 1.0%.

5. Revision History

Table 5-1. Revision History

Revision	Date	Description
A	12/2021	 Document migrated from Microsemi template to Microchip template; Assigned Microchip literature number DS-00004329A,which replaces the previous Microsemi literature number 050-4942. Increased V_{DS(on)} limit from 1.3V max. to 1.4V max.
Initial releases (Microsemi Revisions A through E)	09/2007 – 12/2020	Previous releases.

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