

MRF9482T1

Product Preview

Silicon Lateral FET, N-Channel Enhancement-Mode MOSFET

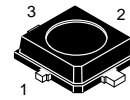
Designed for use in low voltage, moderate power amplifiers such as portable analog and digital cellular radios and PC RF modems.

- Performance Specifications at 900 MHz, 4.8 V
 - Output Power = 36 dBm Typ
 - Power Gain = 10 dB Typ
 - Efficiency = 65% Typ
- Guaranteed Ruggedness at Load VSWR = 10:1
- New Plastic Surface Mount Package

**HIGH FREQUENCY
POWER TRANSISTOR
LDMOS FET
36 dBm, 900 MHz**

**SEMICONDUCTOR
TECHNICAL DATA**

- Pin 1. Drain
2. Gate
3. Source
4. Source



PLASTIC PACKAGE
CASE 449
(PLD-1, Tape & Reel Only)

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DSS}	20	Vdc
Drain-Gate Voltage ($R_{GS} = 1.0 \text{ M}\Omega$)	V_{DGO}	20	Vdc
Gate-Source Voltage	V_{GS}	± 7.0	Vdc
Drain Current - Continuous	I_D	1.1	Adc
Total Device Dissipation @ $T_C = 50^\circ\text{C}$ Derate above 50°C	P_D	12.5 125	W mW/ $^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to 150	$^\circ\text{C}$
Operating Junction Temperature	T_J	150	$^\circ\text{C}$

NOTE: ESD data available upon request.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	8.0	$^\circ\text{C}/\text{W}$

ORDERING INFORMATION

Device	Marking	Package
MRF9482T1	9482	PLD-1 Tape & Reel*

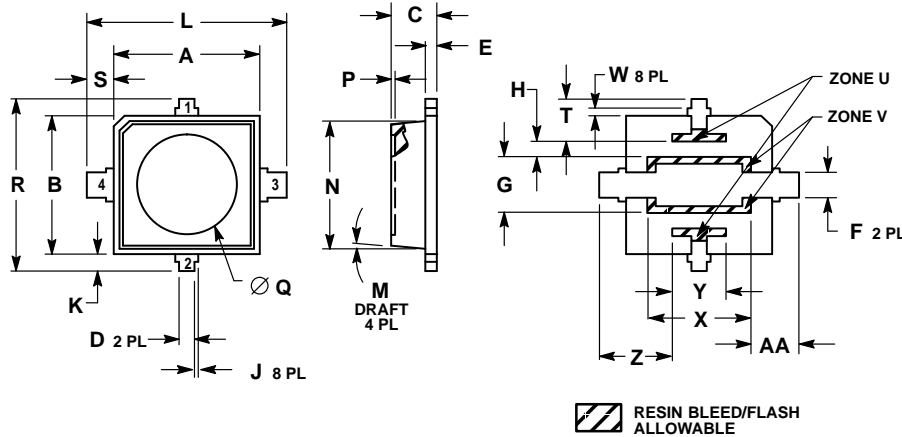
*1,000 Units per 12 mm, 7 inch reel.

MRF9482T1

OUTLINE DIMENSIONS

PLASTIC PACKAGE
CASE 449-02
(PLD-1)
ISSUE A

- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.185	0.195	4.70	4.95
B	0.175	0.185	4.44	4.70
C	0.058	0.064	1.47	1.63
D	0.017	0.023	0.43	0.58
E	0.014	0.017	0.36	0.43
F	0.027	0.033	0.69	0.84
G	0.071	0.077	1.80	1.96
H	0.017	0.023	0.43	0.58
J	0.000	0.007	0.00	0.18
K	0.018	0.026	0.46	0.66
L	0.253	0.263	6.43	6.68
M	5 °REF		5 °REF	
N	1.75 REF		4.44 REF	
P	0.000	0.006	0.00	0.15
Q	0.120	0.130	3.05	3.30
R	0.220	0.230	5.59	5.84
S	0.030	0.038	0.76	0.97
T	0.050	0.060	1.27	1.52
U	0.000	0.018	0.00	0.46
V	0.000	0.014	0.00	0.36
W	0.004	0.016	0.10	0.41
X	0.131	0.141	3.33	3.58
Y	0.065	0.075	1.65	1.90
Z	0.089	0.099	2.26	2.51
AA	0.056	0.066	1.42	1.67

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