

# VHF POWER MOSFET

## N-Channel Enhancement Mode

**DESCRIPTION:**

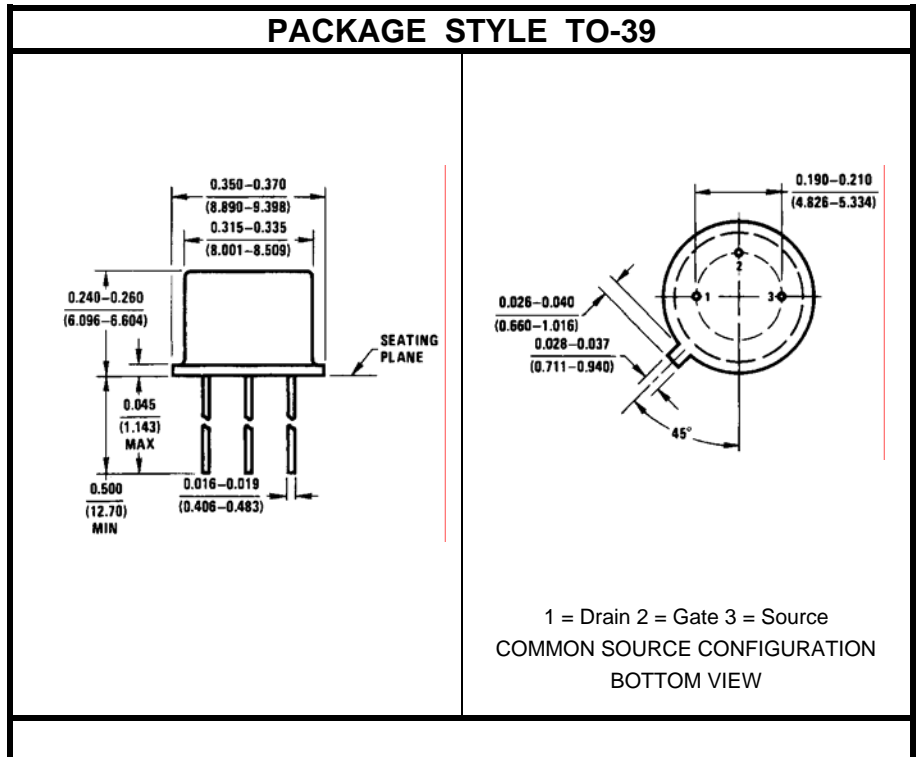
The **ASI MRF134-39** is intended for use in 28 VDC large signal Applications, from 2.0 to 400 MHz.

**FEATURES INCLUDE:**

- $P_G = 14$  dB Typical at 150 MHz
- **Omnigold™** Metalization System
- Class-A or AB

**MAXIMUM RATINGS**

$I_D$	0.9 A
$V_{DSS}$	65 V
$V_{DGR}$	65 V
$V_{GS}$	$\pm 40$ V
$P_{DISS}$	17.5 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	10 °C/W


**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{DSS}$	$I_{DS} = 5.0$ mA		65			V
$I_{DSS}$	$V_{DS} = 28$ V	$V_{GS} = 0$ V			1.0	mA
$I_{GSS}$	$V_{DS} = 0$ V	$V_{GS} = 20$ V			1.0	$\mu$ A
$V_{GS(th)}$	$I_D = 10$ mA	$V_{DS} = 10$ V	1.0		6.0	V
$g_{fs}$	$I_D = 100$ mA	$V_{DS} = 10$ V	.08		0.11	mho
$C_{iss}$ $C_{oss}$ $C_{rss}$	$V_{GS} = 28$ V	$V_{DS} = 0$ V		7.0 9.7 2.3		pF
$P_G$ $\eta_D$	$V_{DD} = 28$ V $P_{IN} = 0.39$ W	$I_{DQ} = 50$ mA	$P_{out} = 5.0$ W	11 55	14	dB %
<b>NF</b>	$I_D = 28$ V	$V_{DS} = 28$ V		2.0		dB