

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

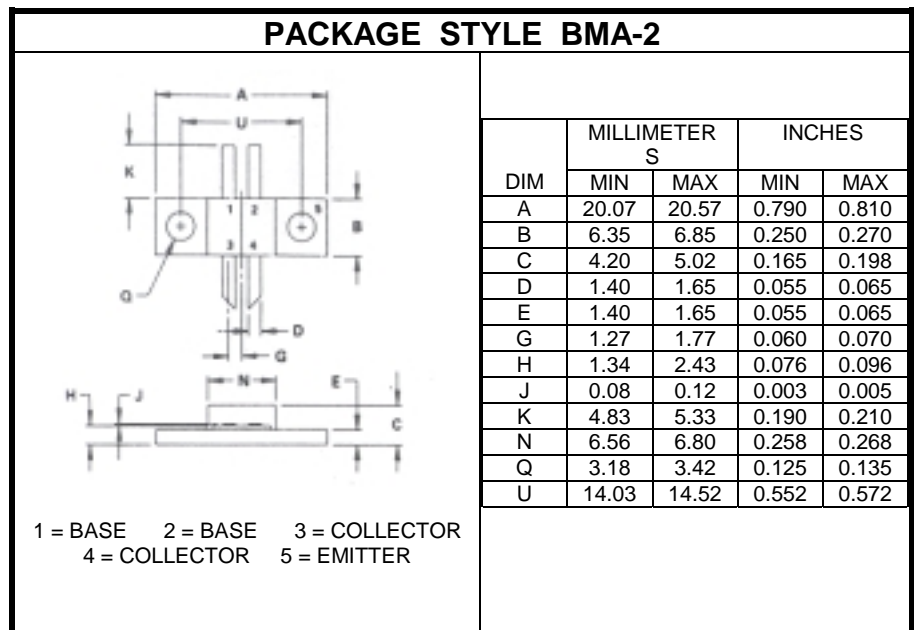
The **TPV5051** is Designed for AB Push Pull, Common Emitter from 470 to 860 MHz Applications.

**FEATURES:**

- Gold Metalization
- Diffused Ballast Resistor

**MAXIMUM RATINGS**

$I_C$	9.0 A
$V_{CEO}$	30 V
$V_{CBO}$	45 V
$P_{DISS}$	97 W @ $T_C = 25\text{ }^\circ\text{C}$
$T_J$	-65 $^\circ\text{C}$ to +200 $^\circ\text{C}$
$T_{STG}$	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
$\theta_{JC}$	1.8 $^\circ\text{C/W}$


**CHARACTERISTICS**  $T_C = 25\text{ }^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 60\text{ mA}$	30			V
$BV_{CBO}$	$I_C = 20\text{ mA}$	45			V
$BV_{EBO}$	$I_E = 6.0\text{ mA}$	4.0			V
$BV_{CER}$	$I_C = 10\text{ mA}$ $R_{BE} = 50\ \Omega$	40			V
$I_{CEO}$	$V_{CE} = 28\text{ V}$			10	mA
$h_{FE}$	$V_{CE} = 20\text{ V}$ $I_C = 800\text{ mA}$	10			---
$C_{ob}$	$V_{CB} = 28\text{ V}$ $f = 1.0\text{ MHz (EACH SIDE)}$			40	pF
$P_G$	$V_{CE} = 28\text{ V}$ $P_{out} = 50\text{ W}$ $I_q = 2X50\text{ mA}$	6.5			dB
$\eta_C$	$f = 860\text{ MHz}$	45			%