

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

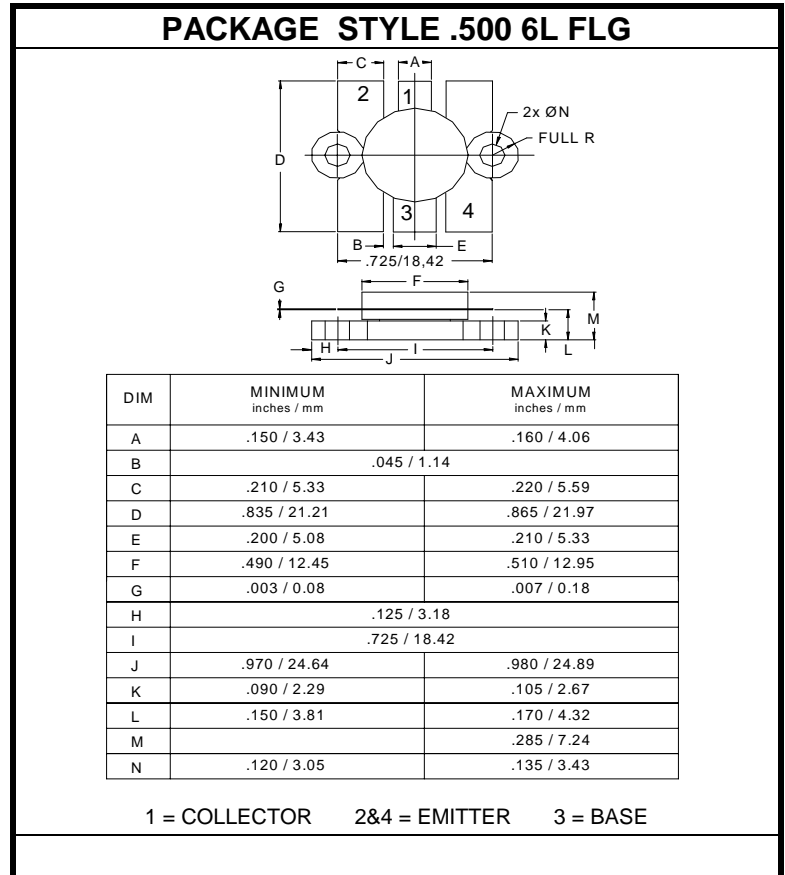
The **ASI BLV25** is a 28 V silicon NPN power transistor designed primarily for VHF FM broadcast transmitters.

**FEATURES:**

- 28 V operation
- $P_G = 1.0$  dB at 175 W/108 MHz
- **Omnigold™** Metalization System
- Diffused Ballast Resistors

**MAXIMUM RATINGS**

$I_C$	17.5 A
$V_{CESM}$	65 V
$V_{CEO}$	33 V
$V_{EBO}$	4.0 V
$P_{DISS}$	220 W @ $T_C = 25^\circ\text{C}$
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	0.80 °C/W


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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CES}$	$I_C = 50$ mA		65			V
$BV_{CEO}$	$I_C = 200$ mA		33			V
$BV_{EBO}$	$I_E = 20$ mA		4.0			V
$I_{CES}$	$V_{CE} = 33$ V				25	mA
$h_{FE}$	$V_{CE} = 25$ V	$I_C = 8.5$ A	15		100	---
$V_{CESat}$	$I_C = 20$ A	$I_C = 4.0$ A		1.6		V
$C_c$	$V_{CB} = 25$ V	$f = 1.0$ MHz		275		pF
$P_G$	$V_{CC} = 28$ V	$P_{OUT} = 175$ W	10			dB
$\eta_c$			65			%