MAXIMUN Inches/nr

.006/0,15

.065/1,65

.095/2,41

195/4,95

.468/11,89



# NPN SILICON RF POWER TRANSISTOR

#### **DESCRIPTION:**

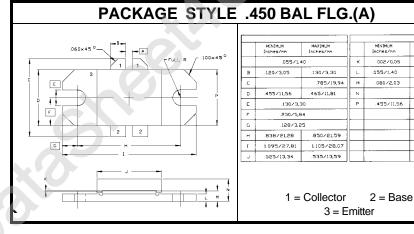
The ASI SD1490 is a Common Emitter Device Designed for Class A and AB Amplifier Applications in Television Band IV & V Transmitters.

#### FEATURES INCLUDE:

- Gold Metalization
- Emitter Ballasting
- Internal Matching

#### MAXIMUM RATINGS

Ιc	8.0 A				
$V_{CB}$	45 V				
P <sub>DISS</sub>	155 W @ $T_{C} = 25 {}^{O}C$				
ΤJ	-55 <sup>o</sup> C to +200 <sup>o</sup> C				
T <sub>STG</sub>	-55 $^{\circ}$ C to +200 $^{\circ}$ C				
<b>d</b> ic	1.15 <sup>O</sup> C/W				



### **CHARACTERISTICS** $T_c = 25 \ ^{\circ}C$

SYMBOL	<b>TEST CONDITIONS (P</b>	MINIMUM	TYPICAL	MAXIMUM	UNITS	
BV <sub>CEO</sub>	I <sub>c</sub> = 200 mA		30			V
BV <sub>CBO</sub>	$I_{\rm C} = 50  {\rm mA}$		45			V
$\mathbf{BV}_{EBO}$	I <sub>E</sub> = 10 mA		3.0			V C
h <sub>FE</sub>	$V_{CE} = 5.0 \text{ V}$ $I_{C} = 3.0 \text{ A}$		10		100	Ð
Сов	V <sub>CB</sub> = 28 V	f = 1.0 MHz		72		pF
<b>G</b> <sub>P</sub>	$V_{CE} = 26.5 \text{ V}$ $I_{C} = 2 \text{ X} 1.6 \text{ A}$	f = 860 MHz	8.0	9.0		dB
G <sub>p</sub>	$V_{CE} = 28 V$ $I_{C} = 2 X 250 mA$ $P_{out} = 50 W$	f = 860 MHz	7.0	8.0	cher	dB
IMD <sub>3</sub>	$V_{CE} = 26.5 \text{ V}  P_{out} = 25 \text{ W}$ VISION = -8.0dB SOUND = -10 dB	f = 860 MHz CHROMA = -16dB		ð	-45	dBc

## N. A D V A N C E D S E M I C O N D U C T O R, I N C 7525 ETHEL AVENUE • NORTH HOLLYWOOD, CA 91605 • (818) 982-1200 • FAX (818) 765-3004