

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

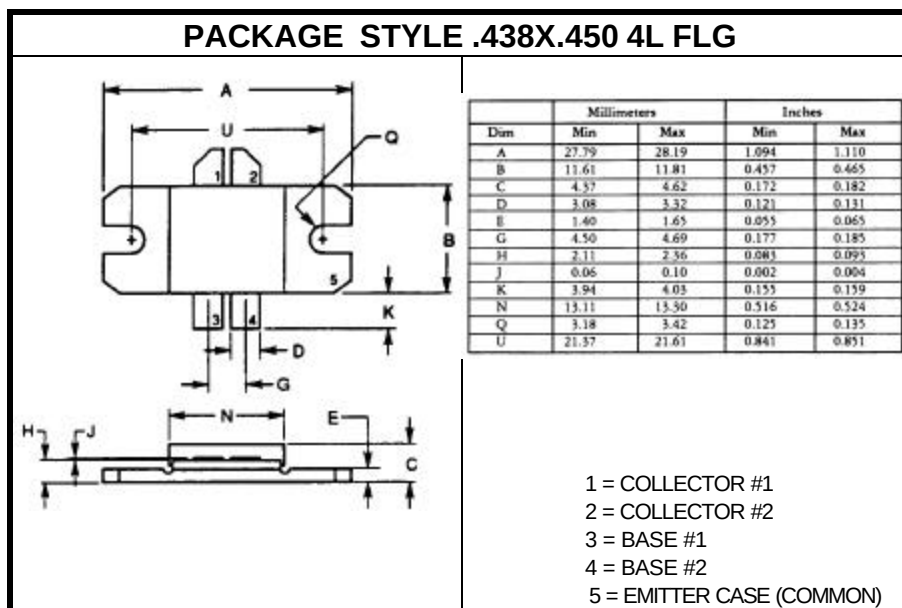
The **SD1489** is a Class AB Push Pull, Device Designed for 28 V, Broadband Applications in the 470 MHz to 860 MHz Spectrum.

FEATURES INCLUDE:

- Internal Input Matching
- Common Emitter Configuration
- Emitter Ballasting
- Gold Metelization

MAXIMUM RATINGS

I_C	8.0 A
V_{CB}	45 V
P_{DISS}	175 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
q_{JC}	1.0 $^\circ\text{C/W}$



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 200\text{ mA}$	30			V
BV_{CER}	$I_C = 20\text{ mA}$ $R_{BE} = 10\ \Omega$	40			V
BV_{CBO}	$I_C = 50\text{ mA}$	45			V
BV_{EBO}	$I_E = 10\text{ mA}$	3.0			V
I_{CEO}	$V_{CE} = 28\text{ V}$			5.0	mA
h_{FE}	$V_{CE} = 5.0\text{ V}$ $I_C = 3.0\text{ A}$	10		80	---
C_{ob}	$V_{CB} = 28\text{ V}$ $f = 1.0\text{ MHz}$		70		pF
P_{out} G_p h_c	$V_{CE} = 28\text{ V}$ $I_{cq} = 2X250\text{ mA}$ $f = 860\text{ MHz}$	50 6.8	45		W dB %