

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

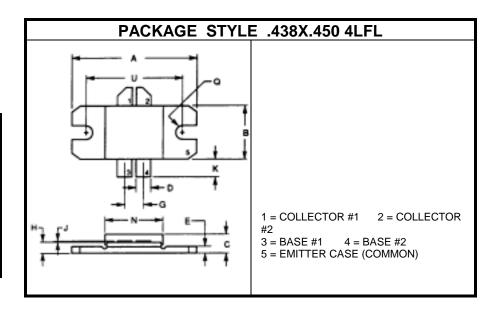
The **ASI TPV8100B** is Designed for Transmitter Output Stages Covering TV Band IV and V, Operating at 28 V.

FEATURES INCLUDE:

- Internal Input, Output Matching
- Common Emitter Configuration
- Gold Metalization
- Emitter Ballasting

MAXIMUM RATINGS

Ic	12 A
V_{CER}	40 V $R_{BE} = 10 \Omega$
P _{DISS}	215 W @ $T_C = 25$ $^{\circ}C$
T_J	-65 °C to +200 °C
T _{STG}	-65 °C to +150 °C
θ _{JC}	0.8 °C/W



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
BV _{CER}	$I_C = 10 \text{ mA}$ $R_{BE} = 75 \Omega$		30			٧
BV _{CBO}	$I_C = 20 \text{ mA}$		65			V
BV _{EBO}	$I_E = 10 \text{ mA}$		4.0			V
I _{CER}	$V_{CE} = 28 \text{ V}$ $R_{BE} = 75 \Omega$				10	mA
h _{FE}	$V_{CE} = 10 \text{ V}$ $I_{C} = 2.0 \text{ A}$		30		120	
Gp	$V_{CE} = 28 \text{ V}$ $I_{cq} = 2X50 \text{ mA}$ f	= 860 MHz	8.5			dB
η	$V_{CE} = 28 \text{ V}$ $I_{cq} = 2X50 \text{ mA}$ f	= 860 MHz	55			%
P _{out}	$V_{CE} = 28 \text{ V}$ $I_{cq} = 2X50 \text{ mA}$ f 1.0 dB COMPRESSION (ref = 25 W)	= 860 MHz	100			w

FUNCTIONAL TESTS IN VIDEO (STANDARD BLACK LEVEL)

P _{out}	V _{CE} = 28 V	$I_{cq} = 2X50 \text{ mA}$	f = 860 MHz	125		W
P _{out}	V _{CE} = 32 V	$I_{cq} = 2X25 \text{ mA}$	f = 860 MHz	150		W

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