

BF421

SILICON NPN TRIPLE DIFFUSED TYPE

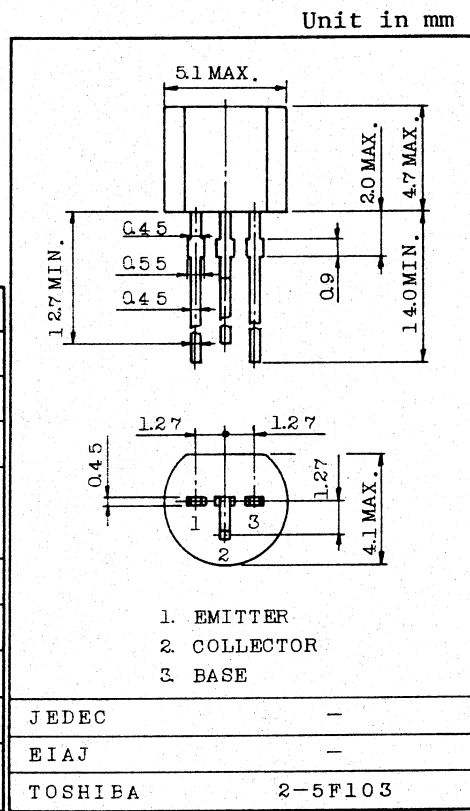
HIGH VOLTAGE SWITCHING AND AMPLIFIER APPLICATIONS.
 COLOR TV CHROMA OUTPUT APPLICATIONS.

FEATURES:

- High Voltage : $V_{CER} > -300V$
- Complementary to BF420.

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-300	V
Collector-Emitter Voltage	V_{CER}	-300	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	DC	I_C	-50
	Peak	I_{CP}	-100
Total Power Dissipation	P_{tot}	830	mW
Base Current	I_B	-20	mA
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-65 ~ 150	$^\circ C$
Solder Temperature, 1.5mm from Case for 10 Seconds.	-	350	$^\circ C$



Weight : 0.21g

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	151	$^\circ C/W$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=-200V, I_E=0$	-	-	-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CER}$	$I_C=-1mA, I_B=0, R_{BE}=2.7k\Omega$	-300	-	-	V
High Temperature Collector Cut-off Current	I_{CER}	$V_{CE}=-200V, R_{BE}=2.7k\Omega, T_j=150^\circ C$	-	-	-10	μA
DC Current Gain	h_{FE}	$V_{CE}=-20V, I_C=-25mA$	40	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)RF}$	$I_C=-25mA, T_j=150^\circ C$	-	-20	-	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-20V, I_C=-25mA$	-	-0.75	-	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-10mA$	60	80	-	MHz
Reverse Transfer Capacitance	C_{re}	$V_{CB}=-30V, I_E=0, f=1MHz$	-	-	1.6	pF

