

BF469

BF471

SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

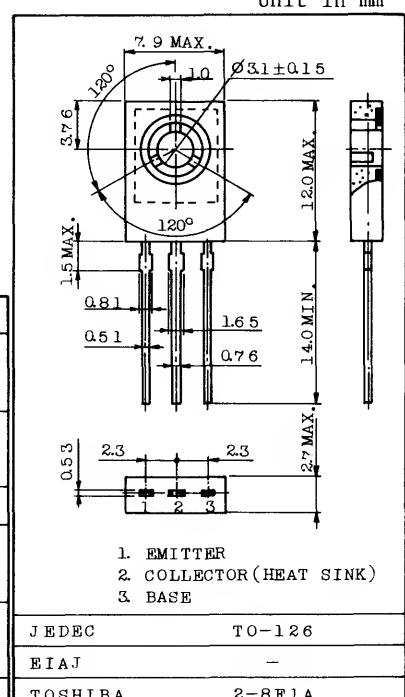
HIGH VOLTAGE SWITCHING AND AMPLIFIER APPLICATIONS.
COLOR TV CHROMA OUTPUT APPLICATIONS.

FEATURES:

- PNP Complements are BF470, and BF472

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	BF469	V _{CBO}	250	V
	BF471		300	
Collector-Emitter Voltage	BF469	V _{CEO}	250	V
	BF471		300	
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current	DC	I _C	50	mA
	Peak	I _{CP}	100	
Total Power Dissipation	Ta=25°C	P _{tot}	1.2	W
	Tc=25°C		5.0	
Base Current		I _B	20	mA
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-65 ~ 150	°C
Solder Temperature, 1.5mm from Case for 10 Seconds.		-	350	°C



Weight : 0.72g

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Thermal Resistance (Junction to Ambient)	R _{θJA}	104	°C/W
Thermal Resistance (Junction to Case)	R _{θJC}	25	°C/W

ELECTRICAL CHARACTERISTICS (Ta=25°C Unless otherwise specified)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	BF469	I _{CBO}	V _{CB} =200V, I _E =0	-	-	0.1	μA
	BF471	I _{CER}	V _{CE} =250V, R _{BE} =2.7kΩ	-	-	0.05	
Emitter Cut-off Current		I _{EBO}	V _{EB} =5V, I _C =0	-	-	10	μA
Collector-Emitter Breakdown Voltage	BF469	V _{(BR)CEO}	I _C =1mA, I _B =0	250	-	-	V
	BF471	V _{(BR)CER}	I _C =1μA, R _{BE} =2.7kΩ	300	-	-	
High Temperature Collector Cut-off Current		I _{CER}	V _{CE} =200V, R _{BE} =2.7kΩ T _j =150°C	-	-	10	μA
DC Current Gain		h _{FE}	V _{CE} =20V, I _C =25mA	50	-	-	
Collector-Emitter RF Saturation Voltage		V _{CE(sat)} RF	I _C =25mA, T _j =150°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	100	-	MHz
Reverse Transfer Capacitance		C _{re}	V _{CB} =30V, I _E =0, f=1MHz	-	-	1.8	pF

BF469•BF471

