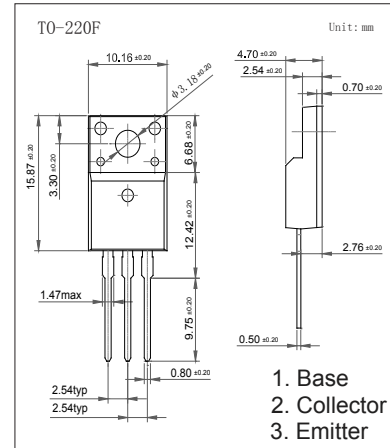


PNP Transistors

KTA1046



Features

- Low saturation voltage and good linearity of hFE.
- Complementary to KTC2026

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	V _{CBO}	-60	V	
Collector - Emitter Voltage	V _{CEO}	-60		
Emitter - Base Voltage	V _{EBO}	-7		
Collector Current - Continuous	I _C	-3	A	
Base Current	I _B	-0.5		
Collector Power Dissipation	P _C	T _a = 25°C	2	W
		T _c = 25°C	25	
Junction Temperature	T _J	150	°C	
Storage Temperature range	T _{stg}	-55 to 150		

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _C = -10 mA, I _E =0	-60			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = -50 mA, I _B =0	-60			
Emitter - base breakdown voltage	V _{EBO}	I _E = -10 mA, I _C =0	-7			
Collector-base cut-off current	I _{CBO}	V _{CB} = -60V, I _E =0			-0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = -7V, I _C =0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2 A, I _B =-200mA			-1	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =-2 A, I _B =-200mA			-1.2	
Base - emitter voltage	V _{BE}	V _{CE} = -5V, I _C = -500 mA			-1	
DC current gain	h _{FE(1)}	V _{CE} = -5V, I _C = -500 mA	100		300	
	h _{FE(2)}	V _{CE} = -5V, I _C = -3 A	20			
Turn-on Time	t _{on}	<p> $I_{B1} = I_{B2} = 0.2A$ DUTY CYCLE $\leq 1\%$ $V_{CC} = -30V$ </p>		0.4	us	
Storage Time	t _{stg}			1.7		
Fall Time	t _f			0.5		
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f=1MHz		45		pF
Transition frequency	f _t	V _{CE} = -5V, I _C = -500mA		30		MHz

Classification of h_{FE(1)}

Type	KTA1046-Y	KTA1046-G
Range	100-200	160-300

PNP Transistors

KTA1046

■ Typical Characteristics

