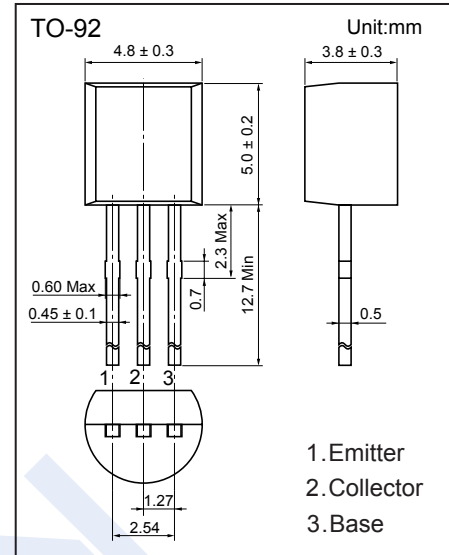


NPN Transistors

KTC3202

■ Features

- Excellent hFE Linearity
- Complementary to KTA1270



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	35	V
Collector - Emitter Voltage	V _{CE0}	30	
Emitter - Base Voltage	V _{EB0}	5	
Collector Current - Continuous	I _c	500	mA
Collector Power Dissipation	P _c	625	mW
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 _{CB0}	I _c = 100μA, I _E = 0	35			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = 1 mA, I _B =0	30			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100μA, I _c = 0	5			
Collector-base cut-off current	I _{CB0}	V _{CB} = 35 V, I _E = 0			0.1	μA
Emitter cut-off current	I _{EB0}	V _{EB} = 5 V, I _c =0			0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =100mA, I _B =10mA			0.25	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =100mA, I _B =10mA			1.2	
Base - emitter voltage	V _{BE}	V _{CE} = 1V, I _c =100mA			1	
DC current gain	h _{FE}	V _{CE} = 1V, I _c =100mA	70		240	
		V _{CE} = 6V, I _c =400mA	O	25		
			Y	40		
Collector output capacitance	C _{ob}	V _{CB} = 6V, I _E = 0, f=1MHz		7		pF
Transition frequency	f _T	V _{CE} = 6V, I _c = 20mA		300		MHz

■ Classification of h_{FE}(1)

Type	KTC3202-O	KTC3202-Y
Range	70-140	120-240

NPN Transistors

KTC3202

■ Typical Characteristics

