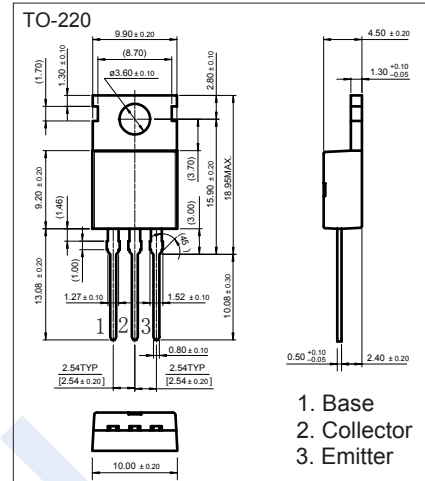


PNP Transistors

KTA1038

■ Features

- High Breakdown Voltage
- Low Collector Saturation Voltage
- Complementary to KTC2018



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-100	V
Collector - Emitter Voltage	V _{CE0}	-100	
Emitter - Base Voltage	V _{EB0}	-5	
Collector Current - Continuous	I _C	-5	A
Base Current	I _B	-0.5	
Emitter Current	I _E	5	
Collector Power Dissipation T _c = 25°C	P _C	40	W
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 = -10 mA, I _E = 0	-100			V
Collector- emitter breakdown voltage	V _{CE0}	I _C = -50 mA, I _B = 0	-100			
Emitter - base breakdown voltage	V _{EB0}	I _E = -10 mA, I _C = 0	-5			
Collector-base cut-off current	I _{CB0}	V _{CB} = -100V, I _E = 0			-0.1	uA
Emitter cut-off current	I _{EB0}	V _{EB} = -5V, I _C = 0			-0.1	mA
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -4 A, I _B = -400mA			-2	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = -4 A, I _B = -400mA			-1.2	
Base - emitter voltage	V _{BE}	V _{CE} = -5V, I _C = -4 A			-1.5	
DC current gain	h _{FE(1)}	V _{CE} = -5V, I _C = -1 A	70		240	
	h _{FE(2)}	V _{CE} = -5V, I _C = -4 A	20			
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		90		pF
Transition frequency	f _T	V _{CE} = -5V, I _C = -1 A		30		MHz

■ Classification of h_{FE(1)}

Type	KTA1038-O	KTA1038-Y
Range	70-140	120-240

PNP Transistors

KTA1038

■ Typical Characteristics

