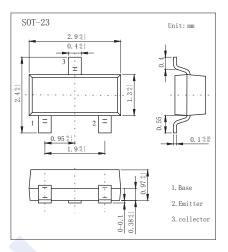
SMD Type Transistors

## NPN Transistors KST8050S

# ■ Features

● Collector Current: Ic=0.5A



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	Vсво	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter-Base Voltage	VEBO	5	V
Collector Current -Continuous	Ic	0.5	Α
Collector Dissipation	Pc	0.3	W
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55 to 150	℃

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	Vсво	Ic = 100 uA, I E = 0	40			V
Collector-emitter breakdown voltage	VCEO	Ic = 1mA , IB = 0	25			V
Emitter-base Breakdown voltage	VEBO	IE = 100 uA, I c = 0	5			V
Collector-base cut-off current	Ісво	VCB = 40 V , IE = 0			0.1	μА
Collector-emitter cut-off current	Iceo	Vce = 20 V , IB = 0			1	μА
Emitter-base cut-off current	ІЕВО	VEB = 5 V , IC = 0			0.1	μА
DC current gain	hFE	Vce = 1 V , Ic = 50 mA	120		400	
Do current gain		Vce = 1 V , Ic = 500 mA	50			
Collector-emitter saturation voltage VCE(sa		Ic = 500 mA , IB = 50 mA			0.6	V
Base-emitter saturation voltage VBE(sat)		Ic = 500 mA , Iв = 50 mA			1.2	V
Transition frequency	fτ	Vce = 6 V , Ic = 20 mA , f = 30 MHz	150			MHz

#### ■ Classification of hfe(1)

L	Туре	KST8050S	KST8050S-L	KST8050S-H	KST8050S-J		
	Range	200-350	120-200	144-202	300-400		
	Marking	J3Y					

SMD Type Transistors

### KST8050S

#### ■ Typical Characteristics

