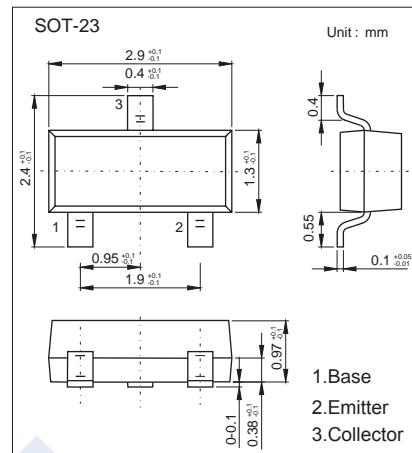


NPN Transistors**2KD3010****■ Features**

- High Voltage
- High Transition Frequency
- Complementary to 2KB4018

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	140	V
Collector - Emitter Voltage	V _{CEO}	100	
Emitter - Base Voltage	V _{EBO}	6	
Collector Current - Continuous	I _C	800	mA
Base Current	I _B	100	
Collector Power Dissipation	P _C	300	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 _{CBO}	I _C = 1mA, I _B = 0	140			V
Collector-emitter breakdown voltage	V _{CEO}	I _C = 10 mA, I _B = 0	100			
Emitter-base breakdown voltage	V _{EBO}	I _E = 1mA, I _C = 0	6			
Collector-base cut-off current	I _{CB0}	V _{CB} = 120 V, I _E = 0			100	nA
Emitter cut-off current	I _{EB0}	V _{EB} = 5V, I _C = 0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500 mA, I _B =50mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =500 mA, I _B =50mA			1.2	
Base-emitter voltage	V _{BE}	V _{CE} = 5V, I _C = 500mA			1	
DC current gain	h _{FE}	V _{CE} = 5V, I _C = 100mA	100		300	
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz			30	pF
Transition frequency	f _T	V _{CE} = 5V, I _C = 100mA			120	MHz

■ Marking

Marking	1C
---------	----

NPN Transistors

2KD3010

■ Typical Characteristics

