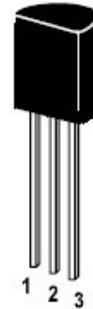


BV32 NPN Silicon Epitaxial Planar Transistor

High voltage fast switching power transistor



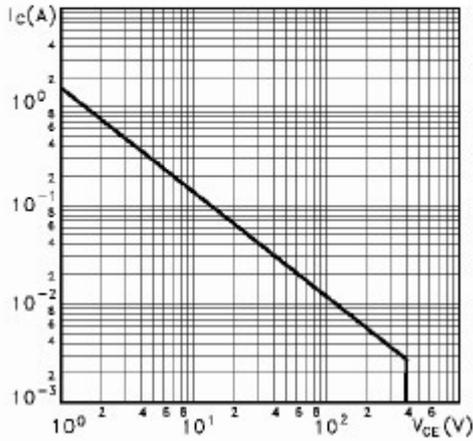
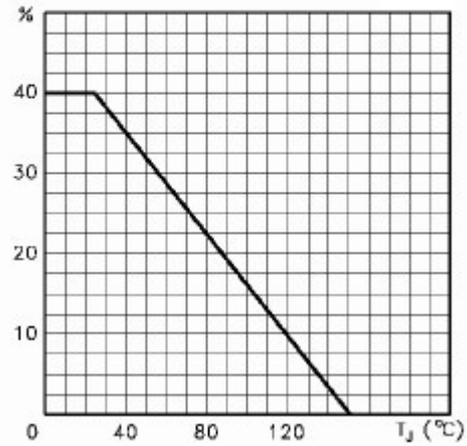
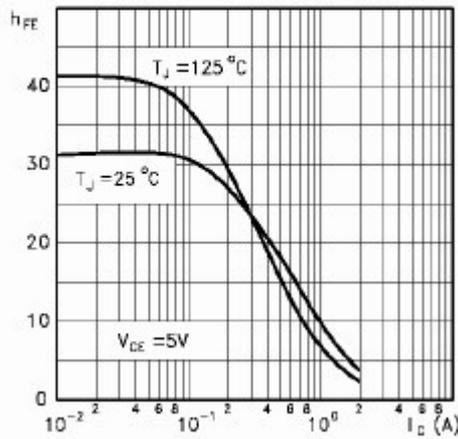
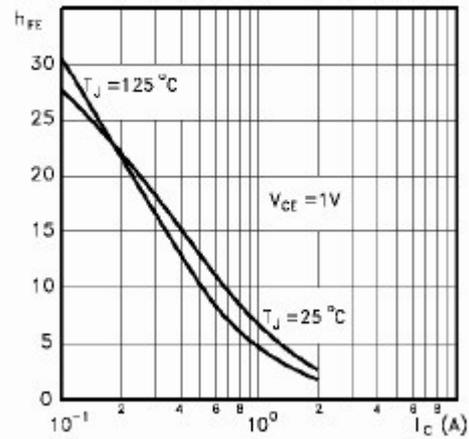
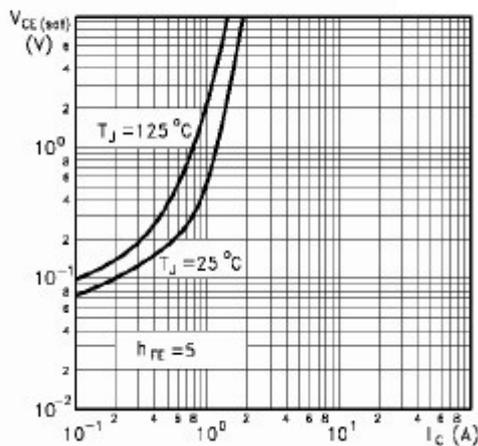
1.Base 2.Emitter 3.Collector
TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	700	V
Collector Emitter Voltage	V_{CEO}	400	V
Emitter Base Voltage	V_{EBO}	9	V
Collector Current	I_C	1.5	A
Collector Peak Current ($t_p < 5\text{ ms}$)	I_{CM}	3	A
Base Current	I_B	0.75	A
Base Peak Current	I_{BM}	1.5	A
Total Dissipation	P_{tot}	1.1	W
Operating Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 2\text{ V}$, $I_C = 0.5\text{ A}$ at $V_{CE} = 2\text{ V}$, $I_C = 1\text{ A}$	h_{FE}	8	35	-
	h_{FE}	5	25	-
Collector Cutoff Current at $V_{CB} = 700\text{ V}$	I_{CBO}	-	1	mA
Emitter Cutoff Current at $V_{EB} = 9\text{ V}$	I_{EBO}	-	1	mA
Collector Emitter Breakdown Voltage at $I_C = 10\text{ mA}$	$V_{(BR)CEO}$	400	-	V
Collector Emitter Saturation Voltage at $I_C = 0.5\text{ A}$, $I_B = 0.1\text{ A}$ at $I_C = 1\text{ A}$, $I_B = 0.25\text{ A}$ at $I_C = 1.5\text{ A}$, $I_B = 0.5\text{ A}$	V_{CEsat}	-	0.5	V
		-	1	
		-	3	
Base Emitter Saturation Voltage at $I_C = 0.5\text{ A}$, $I_B = 0.1\text{ A}$ at $I_C = 1\text{ A}$, $I_B = 0.25\text{ A}$	V_{BEsat}	-	1	V
		-	1.2	

Safe Operating Area

Derating Curve

DC Current Gain

DC Current Gain

Collector Emitter Saturation Voltage

Base Emitter Saturation Voltage
