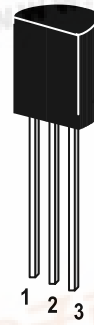


# BV32

查询"BV32"供应商

## NPN Silicon Epitaxial Planar Transistor

High voltage fast switching power transistor



1. Emitter 2. Collector 3. Base

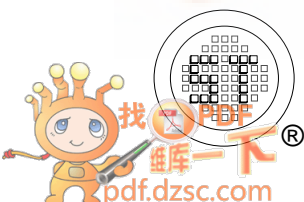
TO-92 Plastic Package  
Weight approx. 0.19g

### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V <sub>CBO</sub>	700	V
Collector Emitter Voltage	V <sub>CEO</sub>	400	V
Emitter Base Voltage	V <sub>EBO</sub>	9	V
Collector Current	I <sub>C</sub>	1.5	A
Collector Peak Current (tp < 5 ms)	I <sub>CM</sub>	3	A
Base Current	I <sub>B</sub>	0.75	A
Base Peak Current	I <sub>BM</sub>	1.5	A
Total Dissipation	P <sub>tot</sub>	1.1	W
Operating Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

### Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at V <sub>CE</sub> = 2 V, I <sub>C</sub> = 0.5 A at V <sub>CE</sub> = 2 V, I <sub>C</sub> = 1 A	h <sub>FE</sub> h <sub>FE</sub>	8 5	35 25	- -
Collector Cutoff Current at V <sub>CB</sub> = 700 V	I <sub>CBO</sub>	-	1	mA
Emitter Cutoff Current at V <sub>EB</sub> = 9 V	I <sub>EBO</sub>	-	1	mA
Collector Emitter Breakdown Voltage at I <sub>C</sub> = 10 mA	V <sub>(BR)CEO</sub>	400	-	V
Collector Emitter Saturation Voltage at I <sub>C</sub> = 0.5 A, I <sub>B</sub> = 0.1 A at I <sub>C</sub> = 1 A, I <sub>B</sub> = 0.25 A at I <sub>C</sub> = 1.5 A, I <sub>B</sub> = 0.5 A	V <sub>CEsat</sub>	- - -	0.5 1 3	V
Base Emitter Saturation Voltage at I <sub>C</sub> = 0.5 A, I <sub>B</sub> = 0.1 A at I <sub>C</sub> = 1 A, I <sub>B</sub> = 0.25 A	V <sub>BEsat</sub>	- -	1 1.2	V



## SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



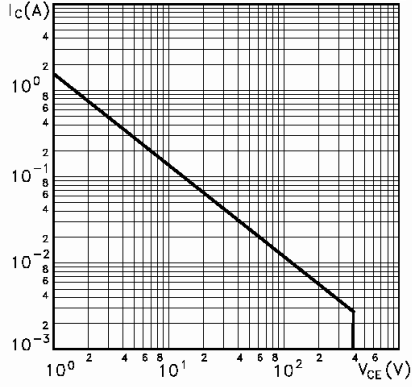
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Certificate No. 71116



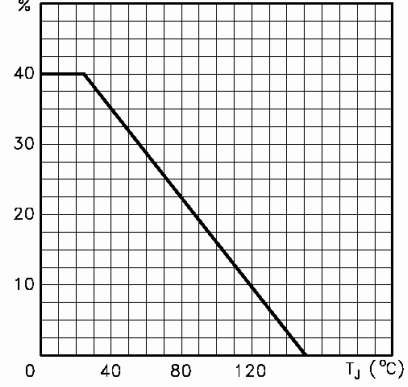
ISO 9001:2000  
Certificate No. 0506098

Dated : 16/09/2006

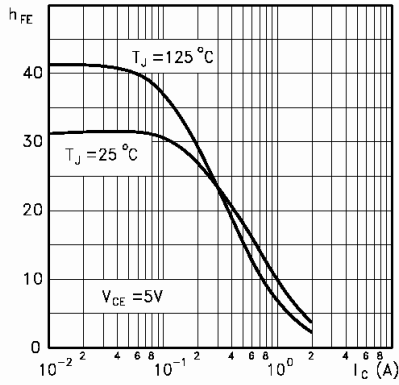
Safe Operating Area



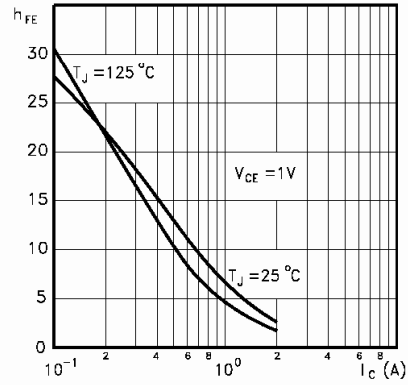
Derating Curve



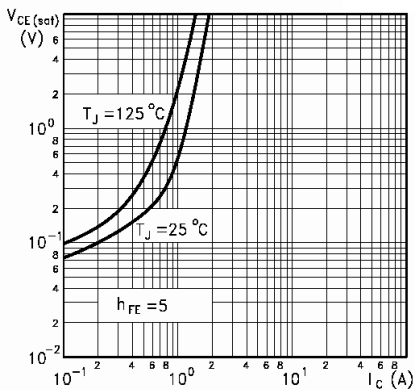
DC Current Gain



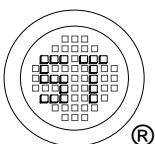
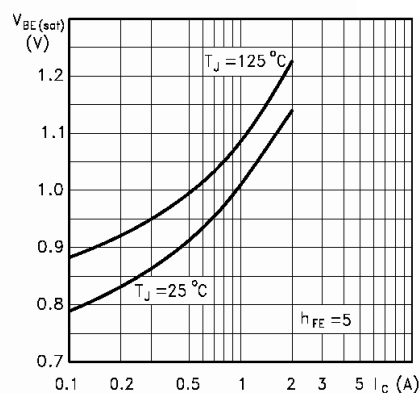
DC Current Gain



Collector Emitter Saturation Voltage



Base Emitter Saturation Voltage



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