



## FEATURES

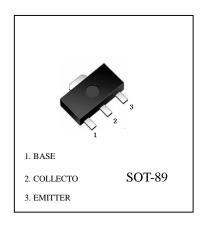
- Collector current up to 5A
- Collector-Emitter voltage up to 20V

## Marking: D965

#### Maximum Ratings (Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit	
Collector-Base Voltage	VCBO	40	V	
Collector-Emitter Voltage	V <sub>CEO</sub>	20	V	
Emitter-Base Voltage	V <sub>EBO</sub>	7	V	
Collector Current -Continuous	IC	3	А	
Collector Power dissipation	PC	0.5	W	
Storage Temperature	Tstg	-55to +150	$^{\circ}\mathbb{C}$	

# 2SD965 (NPN)



#### ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>CBO</sub>	I <sub>C</sub> =100μA, I <sub>E</sub> =0	40			v
Collector-emitter breakdown voltage	V <sub>CEO</sub>	$I_{C}=1mA$ , $I_{B}=0$	20			v
Emitter-base breakdown voltage	V <sub>EBO</sub>	$I_{E}=10\mu A, I_{C}=0$	7			v
Collector cut-off current	I <sub>CBO</sub>	$V_{CB}=10V, I_{E}=0$			0.1	uA
Emitter cut-off current	I <sub>EBO</sub>	$V_{EB}=7V,I_{C}=0$			0.1	uA
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C/</sub> I <sub>B</sub> =3A/0.1A			1	v
DC current gain(note)	h <sub>FE</sub>	$V_{CE}=2V, I_{C}=1mA$		200		
		V <sub>CE</sub> =2V, I <sub>C</sub> =0.5A	230		800	
		$V_{CE}=2V, I_C=2A$	150			
Current gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> =6V,I <sub>C</sub> =50mA		150		MHz
Output Capacitance	C <sub>ob</sub>	$V_{CB}$ =20V, f=1MHz ,I <sub>E</sub> =0A			50	pF

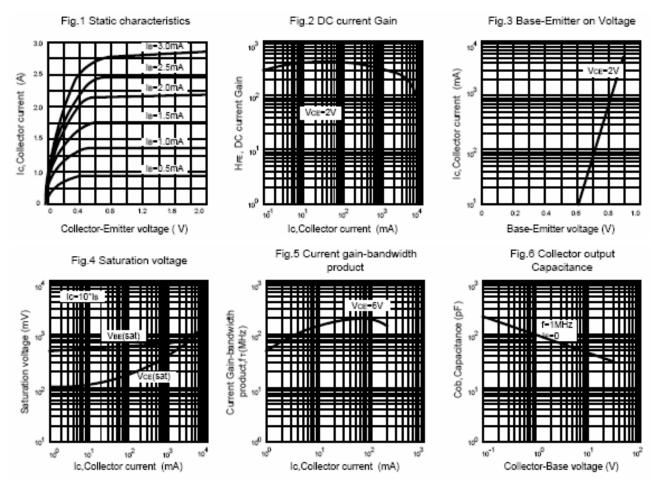
## CLASSIFICATION OF hFE

Rank	Q	R	S
Range	230-380	340-600	560-800











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