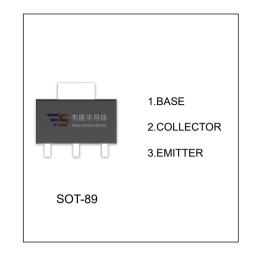


## 2SD2391 TRANSISTOR (NPN)

## **FEATURES**

Low  $V_{CE(sat)}$ 

Marking: DT



## MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V <sub>CBO</sub>	Collector-Base Voltage	60	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	60	V	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
Ic	Collector Current -Continuous	2	А	
Pc	Collector Power Dissipation	0.5	W	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	$^{\circ}$	

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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =50μA,I <sub>E</sub> =0	60			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA,I <sub>B</sub> =0	60			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =50μA,I <sub>C</sub> =0	6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =50V,I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =5V,I <sub>C</sub> =0			0.1	μA
DC ourrent gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =2V,I <sub>C</sub> =0.5A	120		270	
DC current gain	h <sub>FE(2)</sub>	V <sub>CE</sub> =2V,I <sub>C</sub> =1.5A	45			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =1A,I <sub>B</sub> =50mA			0.35	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =2V,I <sub>C</sub> =0.5A, f=100MHz		210		MHz
Output capacitance	Cob	V <sub>CB</sub> =10V,I <sub>E</sub> =0, f=1MHz		21		pF



