

FEATURES

Power dissipation

$$P_{CM}: 500 \text{ mW (Tamb=25}^\circ\text{C)}$$

Collector current

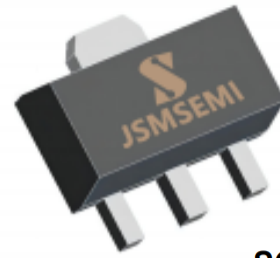
$$I_{CM}: -3 \text{ A}$$

Collector-base voltage

$$V_{(BR)CBO}: -40 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55^\circ\text{C to } +150^\circ\text{C}$$


SOT-89

1. BASE
2. COLLECTOR
3. EMITTER

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)
CLASSIFICATION OF $h_{FE(1)}$

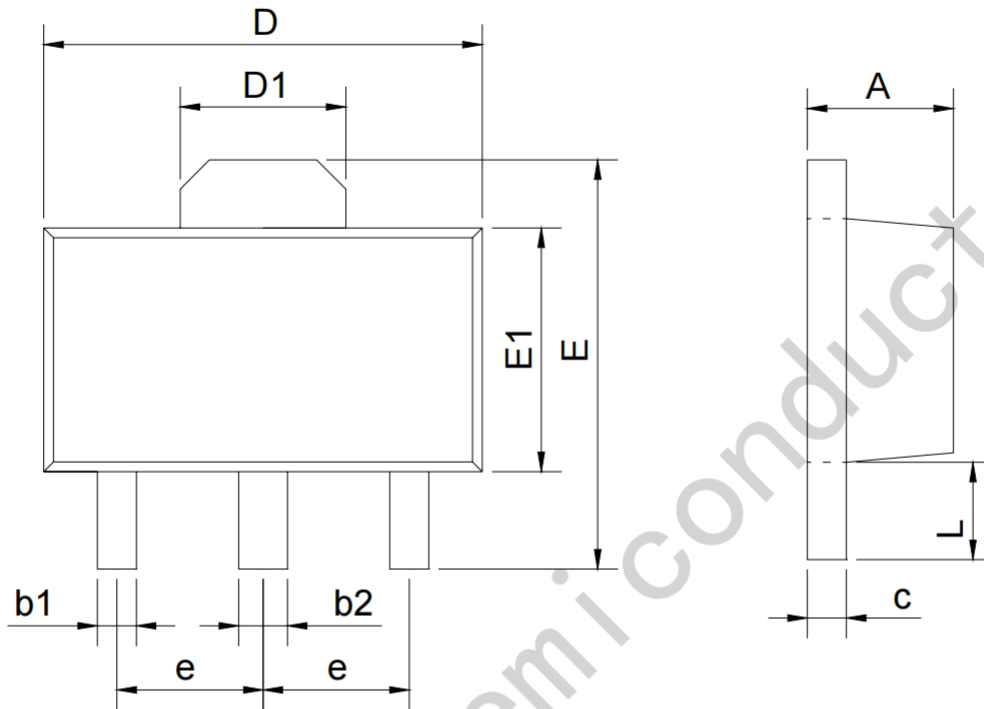
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}, I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10 \text{ mA}, I_B = 0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100 \mu\text{A}, I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -40 \text{ V}, I_E = 0$			-1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -30 \text{ V}, I_B = 0$			-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6\text{V}, I_C = 0$			-1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -2\text{V}, I_C = -1\text{A}$	60		400	
	$h_{FE(2)}$	$V_{CE} = -2\text{V}, I_C = -100\text{mA}$	32			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -2\text{A}, I_B = -0.2\text{A}$			-1.5	V
Transition frequency	f_T	$V_{CE} = -5\text{V}, I_C = -0.1\text{A}$ $f = 10\text{MHz}$	50			MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

Package Information

SOT-89



SYMBOL	mm	
	min	max
A	1.40	1.60
b1	0.35	0.50
b2	0.45	0.60
c	0.36	0.46
D	4.30	4.70
D1	1.40	1.80
E	4.00	4.40
E1	2.30	2.70
e	1.50BSC	
L	0.80	1.20

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