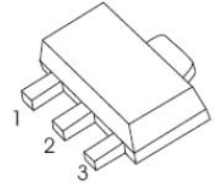


Features

- Low Current (Max. 50mA)
- High Voltage (Max. 300V)
- Video Output Stages



SOT-89-3L

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	300	V
Collector-Emitter Voltage	V _{CEO}	300	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current -Continuous	I _C	50	mA
Collector Power Dissipation	P _C	500	mW
Junction Temperature	T _J	-55 to 150	°C
Storage Temperature	T _{STG}	-55 to 150	°C

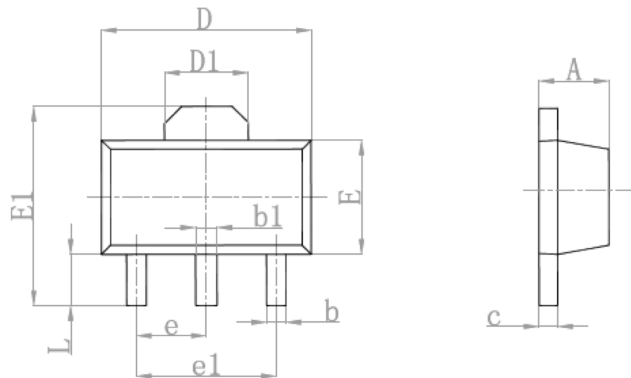
1. BASE
2. COLLECTOR
3. EMITTER

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base Breakdown Voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	300	--	--	V
Collector-emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	300	--	--	V
Emitter-base Breakdown Voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5	--	--	V
Collector Cut-off Current	I _{CBO}	V _{CB} =200V, I _E =0	--	--	10	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	--	--	50	nA
DC Current Gain	h _{FE}	V _{CE} =20V, I _C =25mA	50	--	--	--
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =30mA, I _B =5mA	--	--	0.6	V
Transition Frequency	f _T	V _{CE} =10V, I _C =10mA, f=100MHz	60	--	--	MHz

Package Outline Dimensions

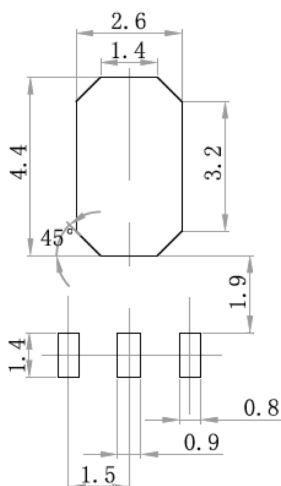
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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

Suggested Pad Layout

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Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.