

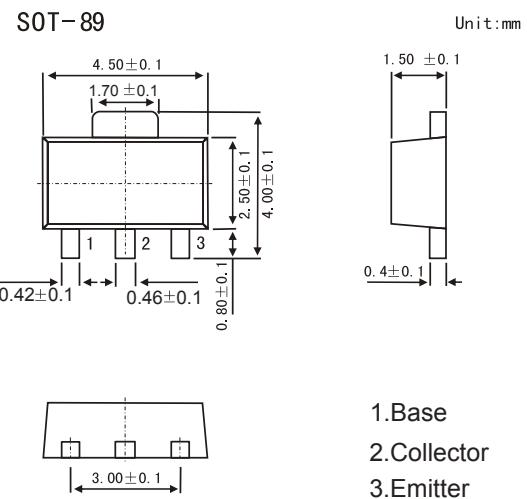
SOT-89 Plastic-Encapsulate Transistors

Features

- Small Flat Package
- Audio Muting Application
- High Emitter-Base Voltage
- NPN Transistors

MECHANICAL DATA

- Case style:SOT-89molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	25	V
Collector - Emitter Voltage	V _{C EO}	20	
Emitter - Base Voltage	V _{EBO}	12	
Collector Current - Continuous	I _c	300	mA
Collector Power Dissipation	P _c	500	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	250	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

PACKAGE INFORMATION

Device	Package	Shipping
KTD1302	SOT-89	1000/Tape&Reel

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _c = 100 μA, I _E = 0	25			V
Collector-emitter breakdown voltage	V _{C EO}	I _c = 1 mA, I _B = 0	20			
Emitter-base breakdown voltage	V _{EBO}	I _E = 100 μA, I _c = 0	12			
Collector-base cut-off current	I _{CBO}	V _{CB} = 25 V, I _E = 0			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = 12V, I _c =0			0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =100 mA, I _b =10mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	I _c =100 mA, I _b =10mA			1	
DC current gain	h _{FE}	V _{CE} = 2V, I _c = 4mA (FOR)	200		800	
		V _{CE} = 2V, I _c = 4mA (REV)	20			
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz		10		pF
Transition frequency	f _T	V _{CE} = 10V, I _c = 1mA, f=100MHz		60		MHz

Marking

Marking	1302
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