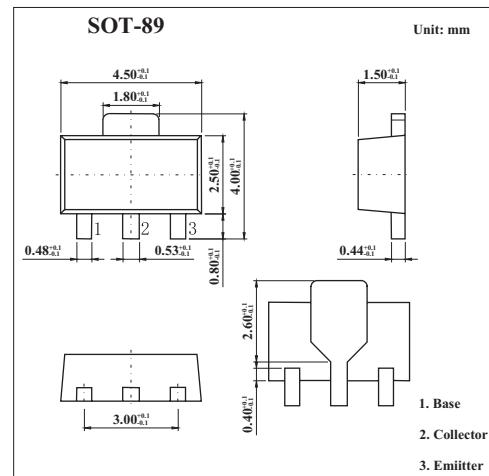


NPN Silicon Planar Medium Power Transistor KCX491A

■ Features

- 60 Volt V_{CEO}.
- 1 Amp continuous current.
- P_{tot}= 1 Watt.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	80	V
Collector-emitter voltage	V _{CEO}	60	V
Emitter-base voltage	V _{EBO}	5	V
Peak pulse current	I _c	1	A
Continuous collector current	I _{CM}	2	A
Power dissipation	P _D	1	W
Operating and storage temperature range	T _j , T _{stg}	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Breakdown Voltages	V _{(BR)CBO}	I _c =100µA	80			V
Breakdown Voltages	V _{CEO(sus)}	I _c =10mA	60			V
Breakdown Voltages	V _{(BR)EBO}	I _e =100µA	5			V
Collector-base cut-off current	I _{CBO}	V _{CB} =60V			100	nA
	I _{CES}	V _{CE} =60V			100	nA
Emitter-base current	I _{EBO}	V _{EB} =4V			100	nA
Collector-emitter saturation voltage *	V _{CE(sat)}	I _c =500mA, I _b =50mA I _c =1A, I _b =100mA			0.25 0.5	V
Base-emitter saturation voltage *	V _{BE(sat)}	I _c =1A, I _b =100mA			1.1	V
Base-emitter ON voltage *	V _{BE(on)}	I _c =1A, V _{CE} =5V			1.0	V
Static Forward Current Transfer Ratio *	h _{FE}	I _c =1mA, V _{CE} =5V	100			
		I _c =500mA, V _{CE} =5V*	100		300	
		I _c =1A, V _{CE} =5V*	80			
		I _c =2A, V _{CE} =5V*	30			
Output capacitance	C _{obo}	V _{CB} =10V, f=1MHz			10	pF
Transitional frequency	f _t	I _c =50mA, V _{CE} =10V f=100MHz	150			MHz

* Pulse test: tp = 300 µs; d ≤ 0.02.