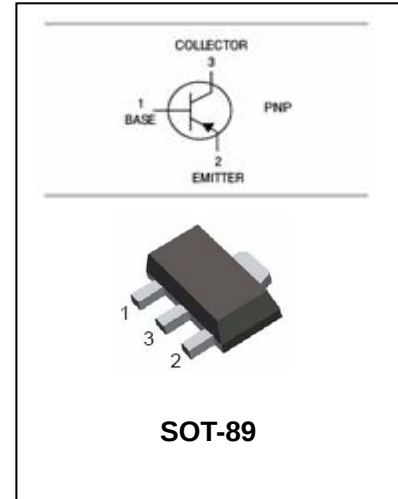




PNP Silicon Planar Medium Power High Performance Transistor FCX591

FEATURES

- Complementary type: FCX491.



ORDERING INFORMATION

Type No.	Marking	Package Code
FCX591	P1	SOT-89

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _{CM}	Peak Pulse Current	-2	A
I _C	Collector Current -Continuous	-1	A
I _B	Base Current	-0.2	A
P _D	Power Dissipation	1	W
T _j , T _{stg}	Junction and Storage Temperature	-65 to +150	°C



PNP Silicon Planar Medium Power High Performance Transistor FCX591

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

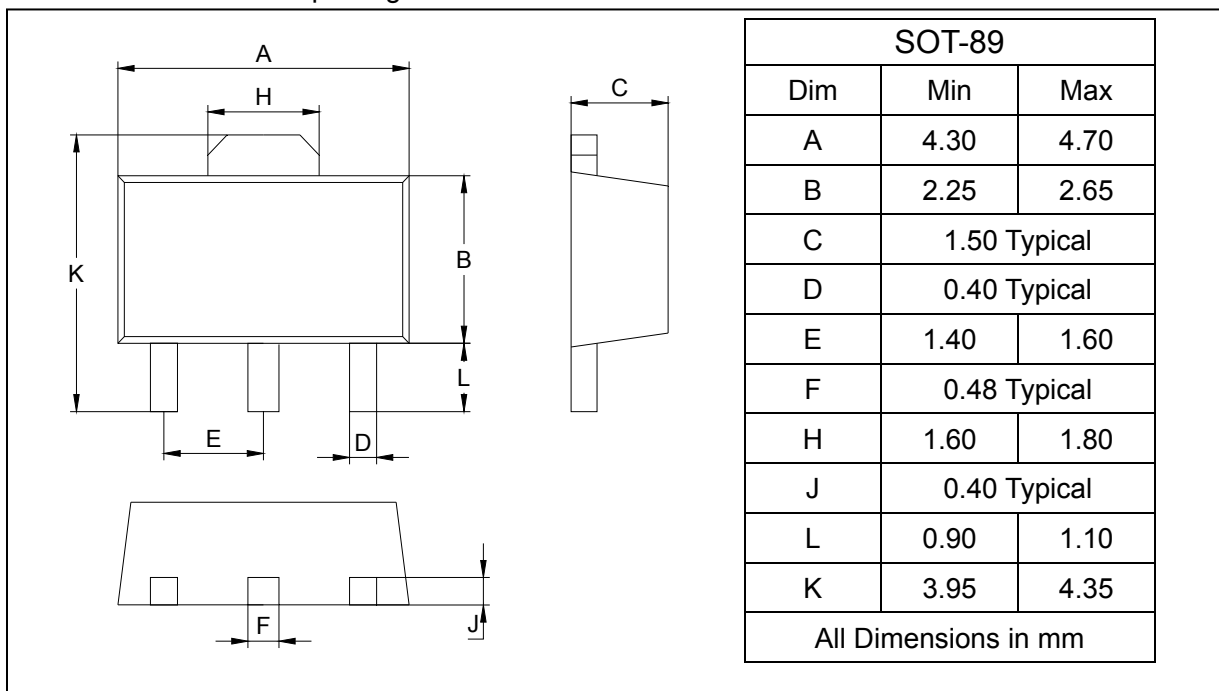
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -60V$			-100	nA
Collector-Emitter Cut-Off Current	I_{CES}	$V_{CES} = -60V$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -3V, I_C = 0$			-100	nA
DC current gain	h_{FE}	$V_{CE} = -5V, I_C = -1mA$ $V_{CE} = -5V, I_C = -500mA$ $V_{CE} = -5V, I_C = -1A$ $V_{CE} = -5V, I_C = -2A$	100 100 80 15	300		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$ $I_C = -1A, I_B = -100mA$			-0.3 -0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1A, I_B = -100mA$			-1.2	V
Base-emitter Turn-on Voltage	$V_{BE(on)}$	$I_C = -1A, V_{CE} = -5V$			-1.0	V
Transition frequency	f_T	$V_{CE} = -10V, I_C = -50mA$, $f = 100MHz$	150			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			10	pF

PNP Silicon Planar Medium Power High Performance Transistor FCX591

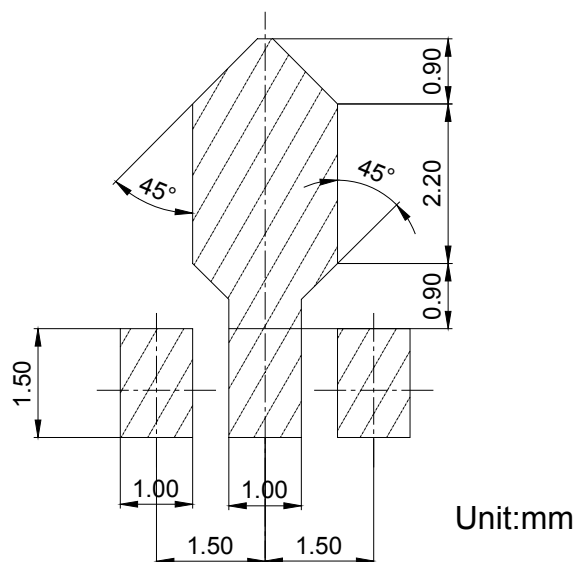
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
FCX591	SOT-89	1000/Tape&Reel