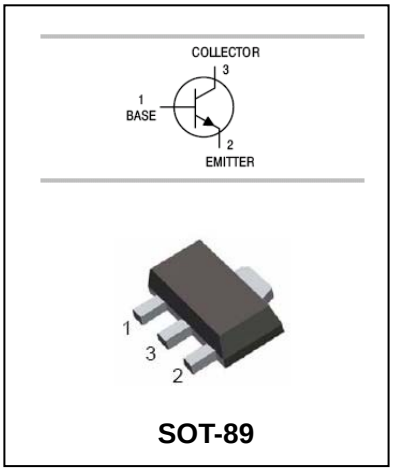
High h_{FE},Low-Frequency General-Purpose Amplifier Applications **2SC3650**

FEATURES

Lead-free

- High DC current gain.
- Low collector-to-emitter saturation voltage.
- Large current capacity.
- Very small size making it easy to provide high-Density,small-sized hybrid IC′ s.



SOT-89

APPLICATIONS

LFamplifiers,various drivers,muting circuit

ORDERING INFORMATION

Type No.	Marking	Package Code
2SC3650	CF	SOT-89

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

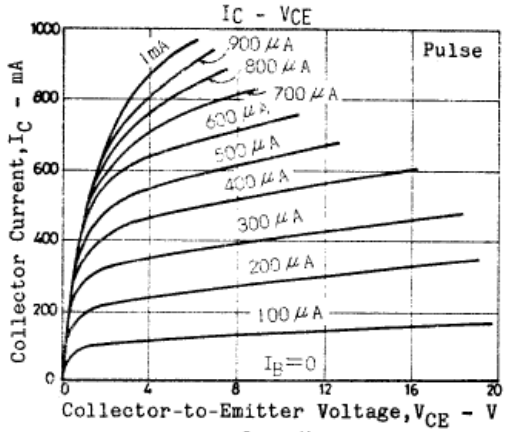
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	15	V
I_C	Collector Current -Continuous	1.2	A
I_{CP}	Collector Current(Pulse)	2	A
P_C	Collector Dissipation	500	mW
T_j,T_{stg}	Junction and Storage Temperature	-55~150	℃

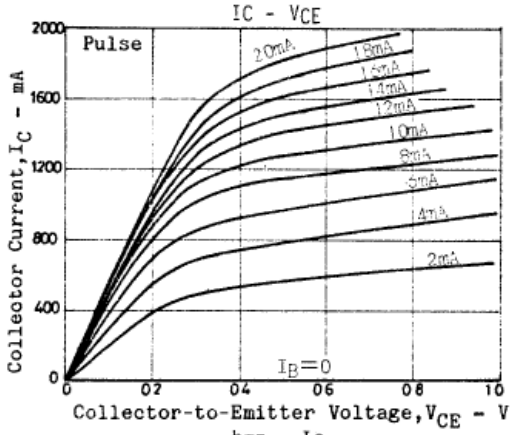
High h_{FE},Low-Frequency General-Purpose Amplifier Applications **2SC3650**

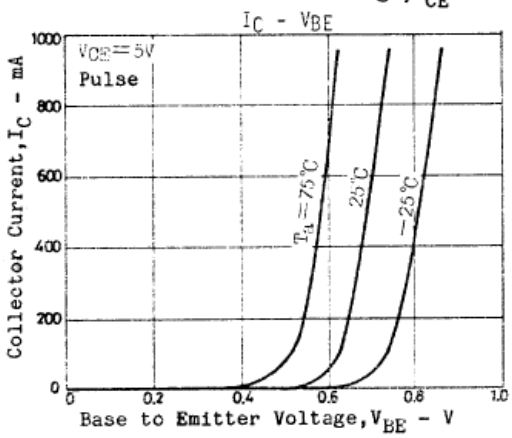
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

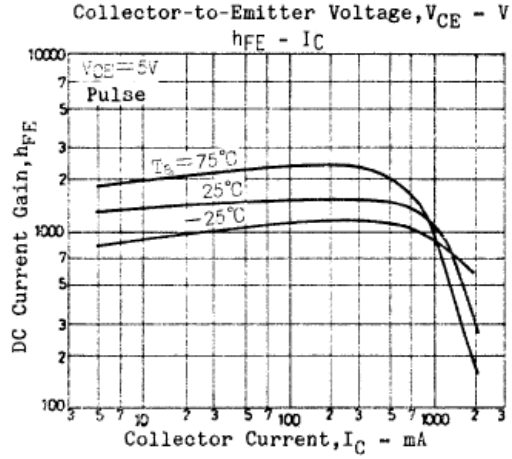
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=10uA,I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=1mA,I_B=0	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=10uA,I_C=0	15			V
Collector cut-off current	I_{CBO}	V_{CB}=20V,I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=10V,I_C=0			0.1	μA
DC current gain	h_{FE}	V_{CE}=5V,I_C=500mA	800	1500	3200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=0.5A, I_B=0.01A		0.12	0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=0.5A, I_B=0.01A		0.85	1.2	V
Transition frequency	f_T	V_{CE}=10V,I_c=50mA		220		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0,f=1MHz		17		pF

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified





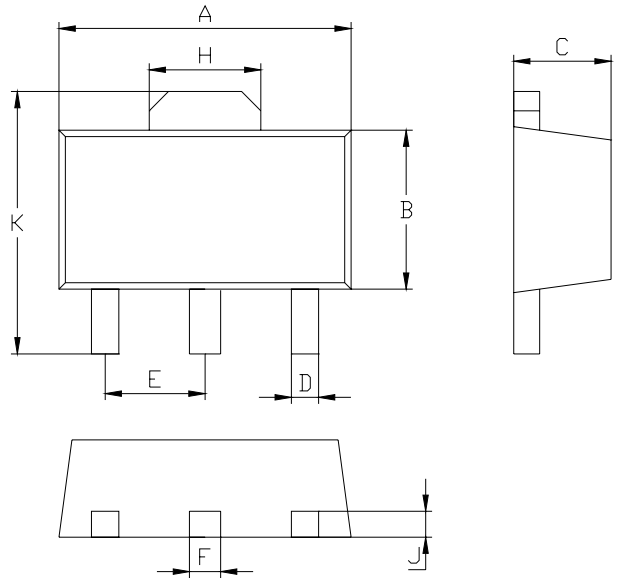




High h_{FE},Low-Frequency General-Purpose Amplifier Applications **2SC3650**

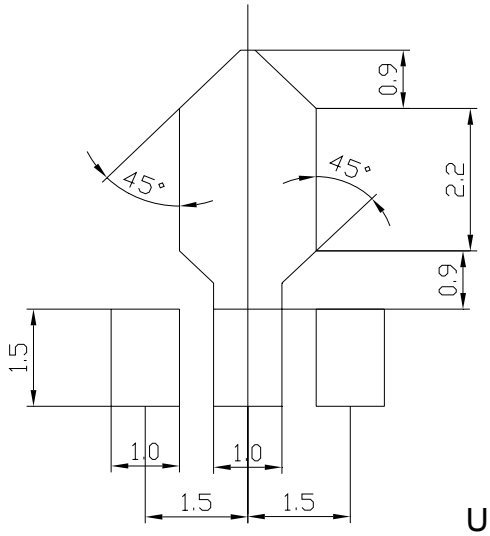
PACKAGE OUTLINE

Plastic surface mounted package SOT-89



SOT-89		
Dim	Min	Max
A	4.5	4.7
B	2.3	2.7
C	1.5Typical	
D	0.35	0.55
E	1.4	1.6
F	0.4	0.6
H	1.55	1.75
J	0.4Typical	
K	4.15	4.25
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit:mm

PACKAGE INFORMATION

Device	Package	Shipping
2SC3650	SOT-89	1000/Tape&Reel