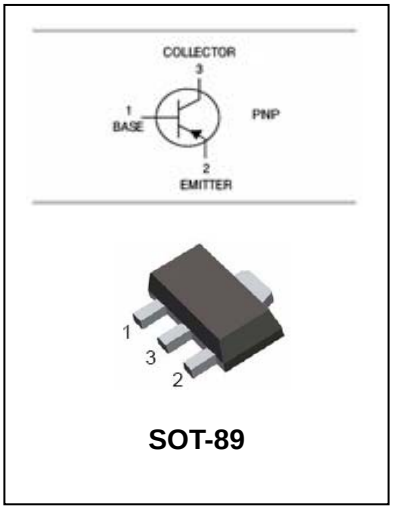
PNP Epitaxial Planar Silicon Transistor 2SA1740

FEATURES

- High breakdown voltage.
- Adoption of MBIT process.
- Excellent h_{FE} linearlity.

Lead-free



SOT-89

ORDERING INFORMATION

Type No.	Marking	Package Code
2SA1740	AK	SOT-89

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-200	mA
I_{CP}	Collector Current(Pulse)	-400	mA
P_C	Collector Dissipation (Note1)	1.3	W
T_j, T_{stg}	Junction and Storage Temperature	-55~150	℃

Note1:Mounted on ceramic substrate(250mm^2*0.8t)

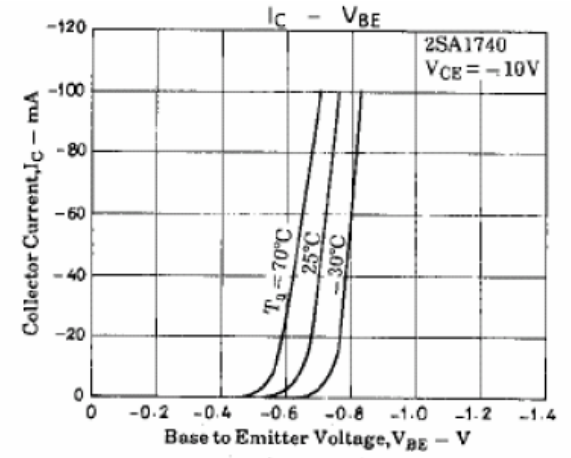
PNP Epitaxial Planar Silicon Transistor 2SA1740

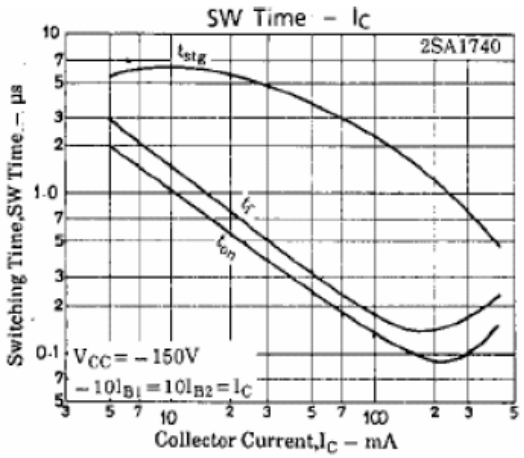
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

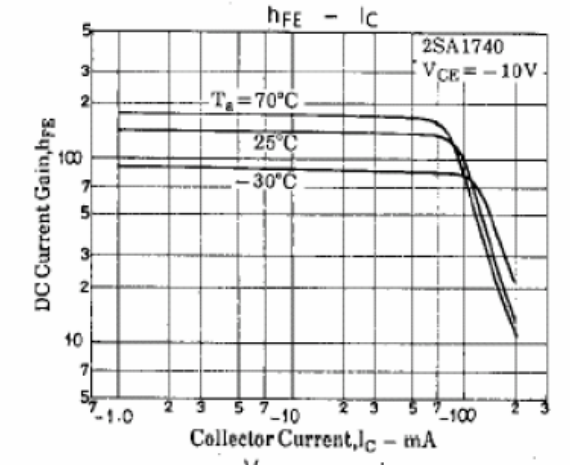
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-10uA,I_E=0	-400			V
Collector- emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA,I_B=0	-400			V
Emitter- base breakdown voltage	$V_{(BR)EBO}$	I_E=-10uA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-300V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-4V,I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-10V,I_C=-50mA	60		200	
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=-50mA,I_B=-5mA			-1	V
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-50mA,I_B=-5mA		-0.8		V
Transition frequency	f_T	V_{CE}=-30V, I_C=-10mA		70		MHz
Output capacitance	C_{ob}	V_{CB}=-30V,I_E=0,f=1MHz		4		pF
Reverse Transfer Capacitance	C_{re}	V_{CB}=-30V,I_E=0,f=1MHz		3		pF
Turn-ON Time	t_{on}	V_{CC}=-150V,I_C=-50mA, I_{B1}=I_{B2}=-5mA		0.25		uS
Turn-OFF Time	t_{off}			5		uS

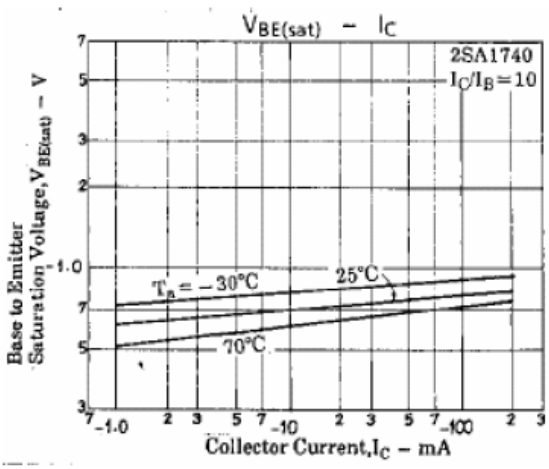
PNP Epitaxial Planar Silicon Transistor 2SA1740

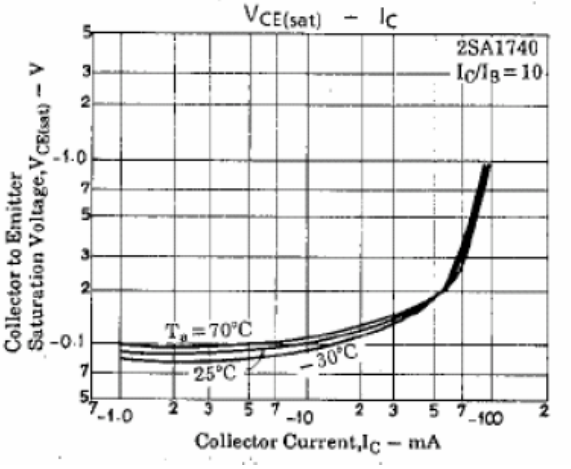
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified







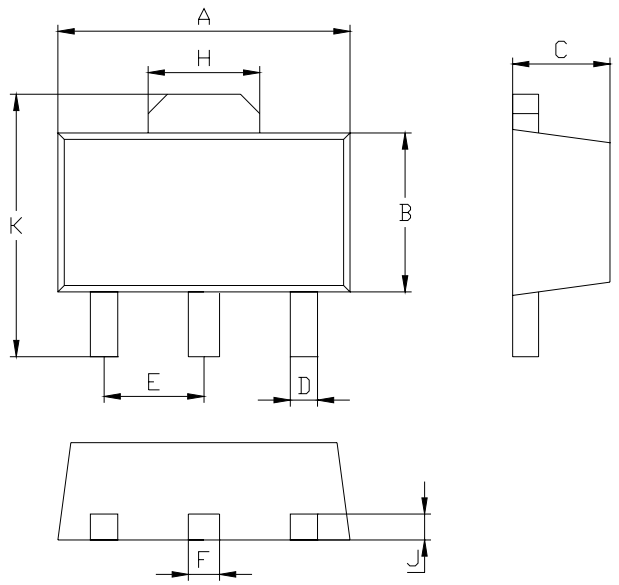




PNP Epitaxial Planar Silicon Transistor 2SA1740

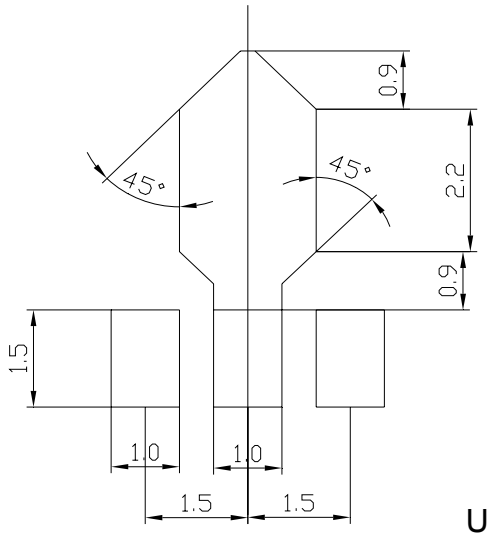
PACKAGE OUTLINE

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
2SA1740	SOT-89	1000/Tape&Reel