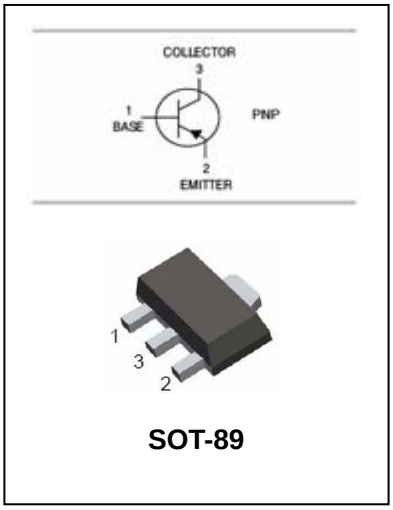
PNP Silicon Epitaxial Planar Transistor **KTA1664**

FEATURES

- 1W(Mounted on Ceramic Substrate).
- Small flat package.
- Complementary: KTC4376.

Lead-free



SOT-89

ORDERING INFORMATION

Type No.	Marking	Package Code
KTA1664	RO/RY	SOT-89

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Parameter**	**Value**	**Units**
V_{CBO}	Collector-Base Voltage	-35	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.8	A
I_B	Base Current	-0.16	A
P_C	Collector Dissipation	500	mW
T_j,T_{stg}	Junction and Storage Temperature	-55 to +150	℃

PNP Silicon Epitaxial Planar Transistor **KTA1664**

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Test conditions**	**MIN**	**TYP**	**MAX**	**UNIT**
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-1mA,I_E=0	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA,I_B=0	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-1mA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-35V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V,I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-1V,I_C=-100mA V_{CE}=-1V,I_C=-700mA	100 35		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-500mA, I_B= -20mA			-0.7	V
Base-emitter voltage	V_{BE}	V_{CE}=-1V ,I_C=-10mA	-0.5		-0.8	V
Transition frequency	f_T	V_{CE}=-5V, I_C= -10mA		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz		19		pF

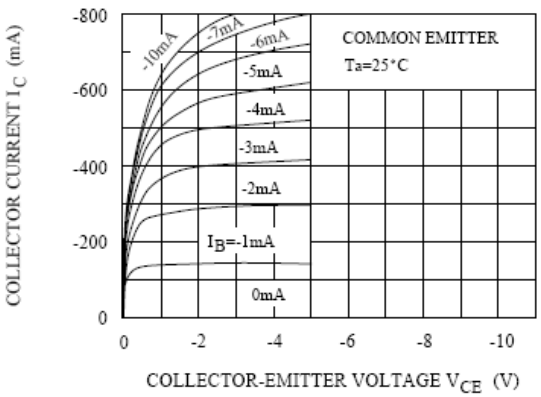
CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	100-200	160-320
MARKING	RO	RY

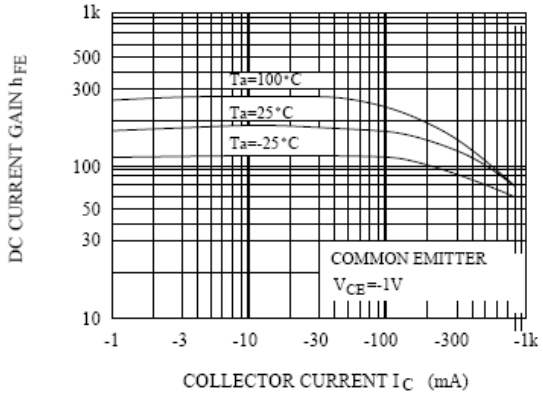
PNP Silicon Epitaxial Planar Transistor **KTA1664**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

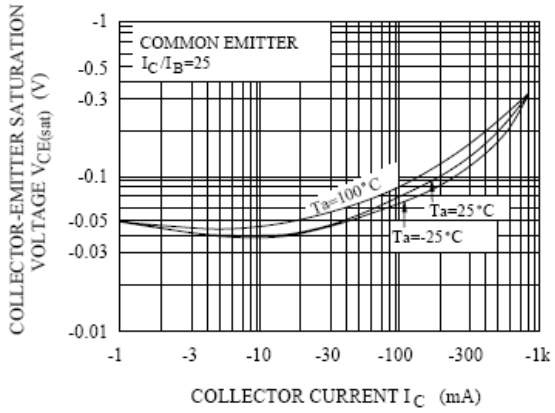
I_C - V_{CE}



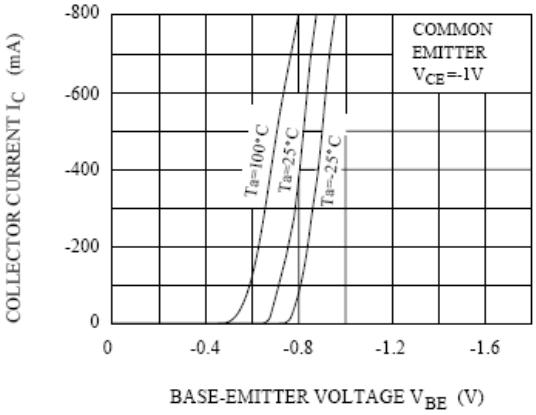
h_{FE} - I_C



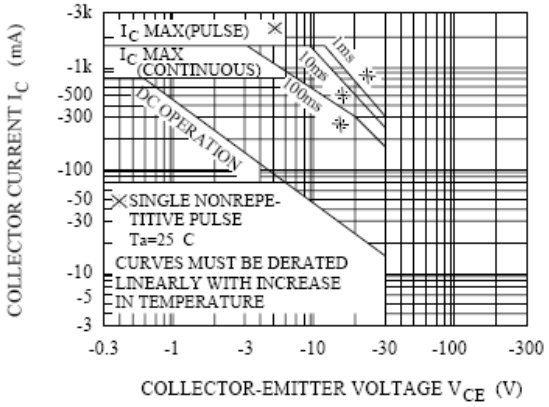
$V_{CE(sat)}$ - I_C



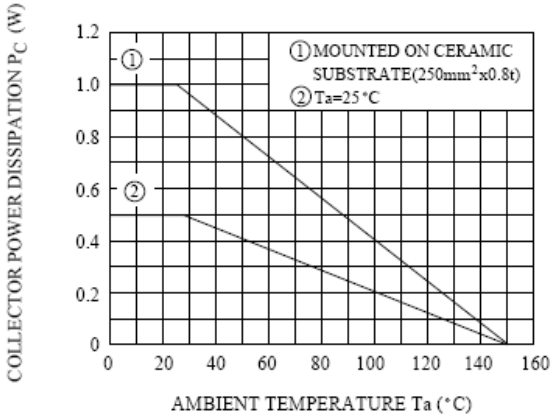
I_C - V_{BE}



SAFE OPERATING AREA



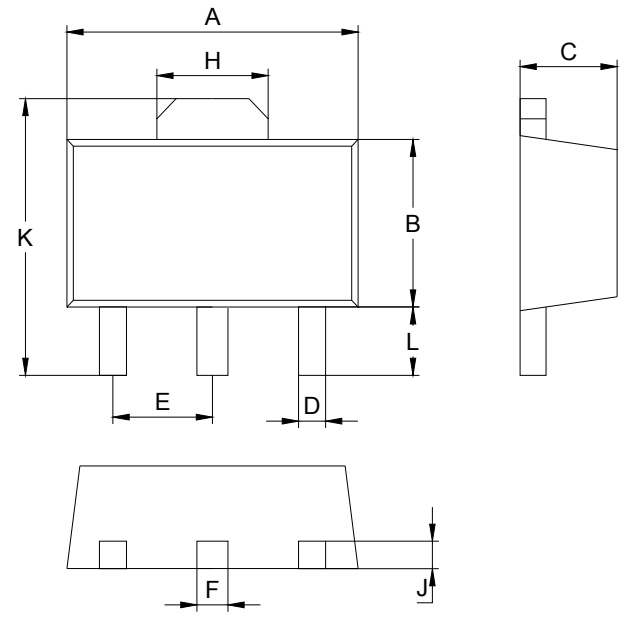
Pc - Ta



PNP Silicon Epitaxial Planar Transistor **KTA1664**

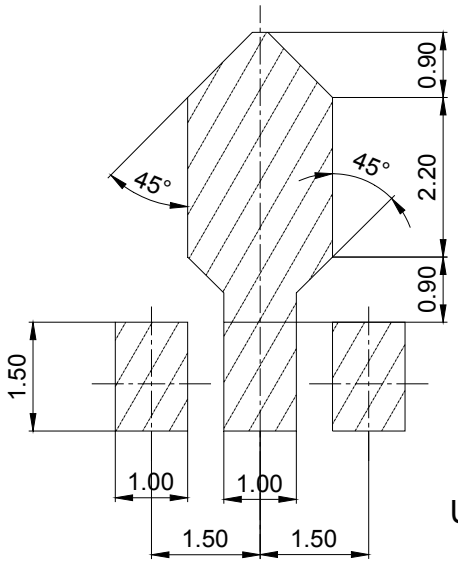
PACKAGE OUTLINE

Plastic surface mounted package SOT-89



SOT-89		
Dim	Min	Max
A	4.30	4.70
B	2.25	2.65
C	1.50 Typical	
D	0.40 Typical	
E	1.40	1.60
F	0.48 Typical	
H	1.60	1.80
J	0.40 Typical	
L	0.90	1.10
K	3.95	4.35
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit:mm

PACKAGE INFORMATION

Device	Package	Shipping
KTA1664	SOT-89	1000/Tape&Reel