

PNP Silicon Epitaxial Planar Transistor

KTA1275

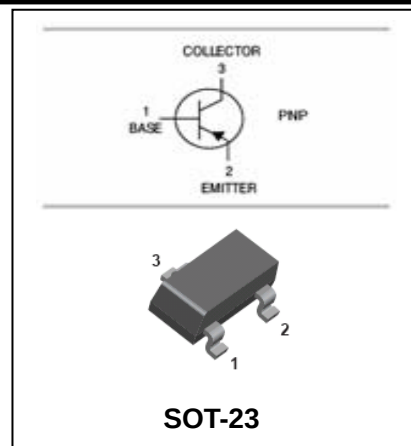
FEATURES

- Complementary To KTC3228.
- Large Continuous Collector Current Capability.
- High Voltage: $V_{CEO} = -160V$.



APPLICATIONS

- Color tv vert.deflection output application.
- Color tv class sound output application.



ORDERING INFORMATION

Type No.	Marking	Package Code
KTA1275		SOT-23

MAXIMUM RATING @ $T_a = 25^\circ C$ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-1	A
I_B	Base Current	-0.5	A
P_C	Collector Power Dissipation	1	W
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	$^\circ C$



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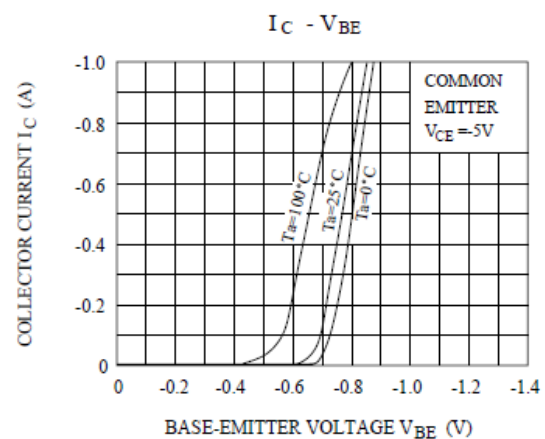
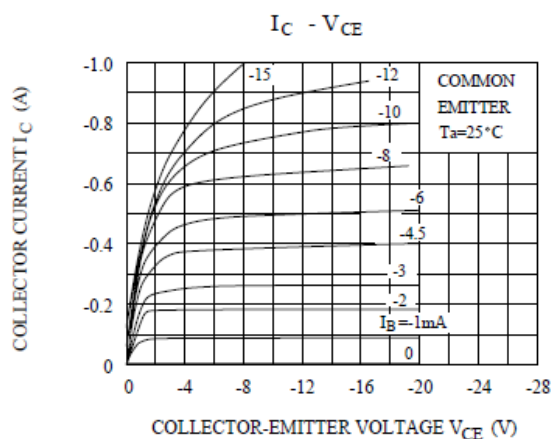
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-160			V
Collector cut-off current	I_{CBO}	$V_{CB} = -150V, I_E = 0$			-1.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6V, I_C = 0$			-1.0	μA
DC current gain	h_{FE}	$V_{CE} = -5V, I_C = -200mA$	60		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			-1.5	V
Base-emitter voltage	$V_{BE(on)}$	$V_{CE} = -5V, I_C = -5mA$	-0.45		-0.75	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -200mA$	15	50		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			35	pF

CLASSIFICATION OF h_{FE}

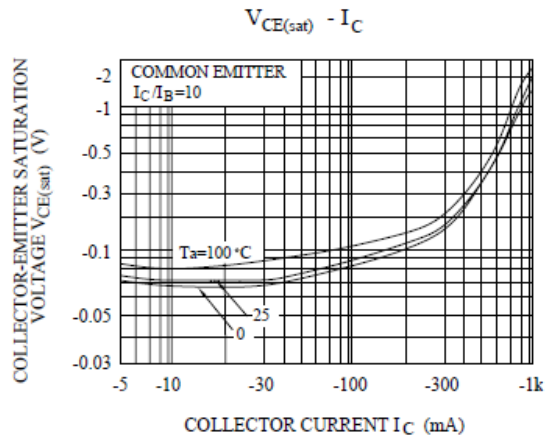
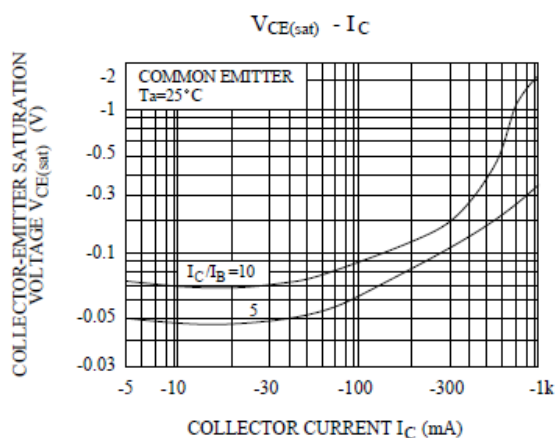
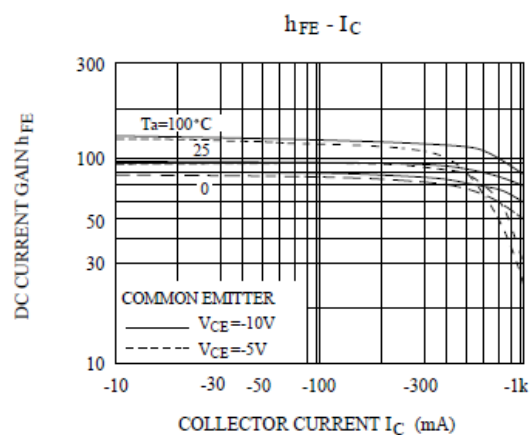
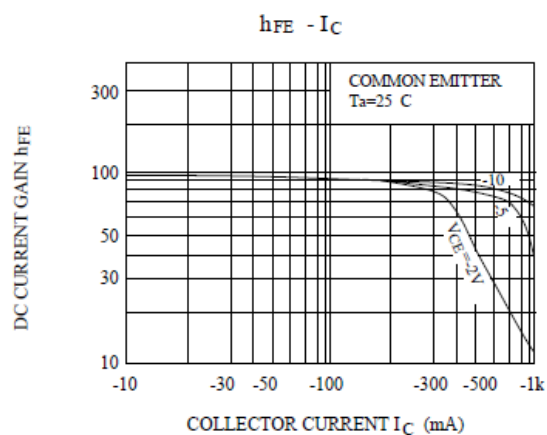
Rank	R	O	Y
Range	60-120	100-200	160-320
Marking			

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



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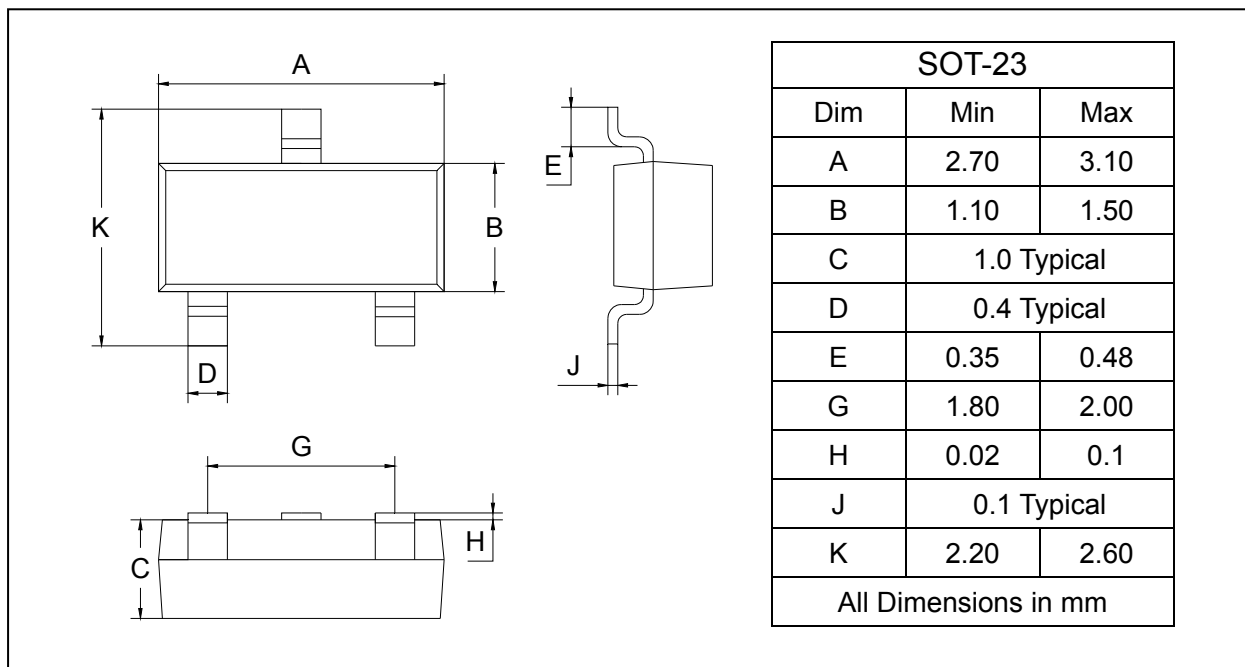
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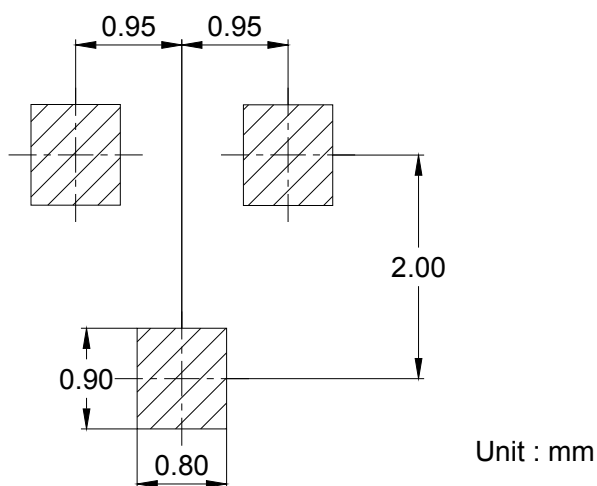
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
KTA1275	SOT-23	3000/Tape&Reel