

PNP Silicon Epitaxial Planar Transistor

KTA1001

FEATURES

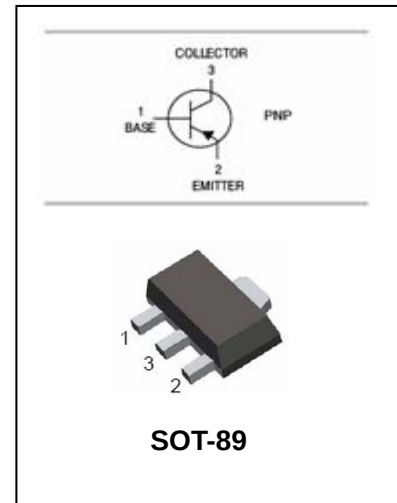
- Low Collector Saturation Voltage.
- High Power Dissipation.



Lead-free

APPLICATIONS

- Camera Strobo Flash Application.
- High Current Application.



ORDERING INFORMATION

Type No.	Marking	Package Code
KTA1001	KO/KY	SOT-89

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-35	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-8	V
I_C	Collector Current -Continuous	-3	A
I_B	Base Current	-0.5	A
P_C	Collector Dissipation	500	mW
T_{j}, T_{stg}	Junction and Storage Temperature	-55 to +150	°C



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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_E = -1mA, I_C = 0$	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -1mA, I_C = 0$	-8			V
Collector cut-off current	I_{CBO}	$V_{CB} = -35V, I_E = 0$			-100	nA
Collector cut-off current	I_{CEO}	$V_{CB} = -20V, I_E = 0$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -8V, I_C = 0$			-100	nA
DC current gain	h_{FE}	$V_{CE} = -2V, I_C = -0.5A$	100		320	
		$V_{CE} = -2V, I_C = -3A$	70			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -3A, I_B = -75mA$			-0.5	V
Base-emitter voltage	V_{BE}	$V_{CE} = -2V, I_C = -3A$			-1.5	V
Transition frequency	f_T	$V_{CE} = -2V, I_C = -0.5A$		170		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0$ $f = 1MHz$		62		pF

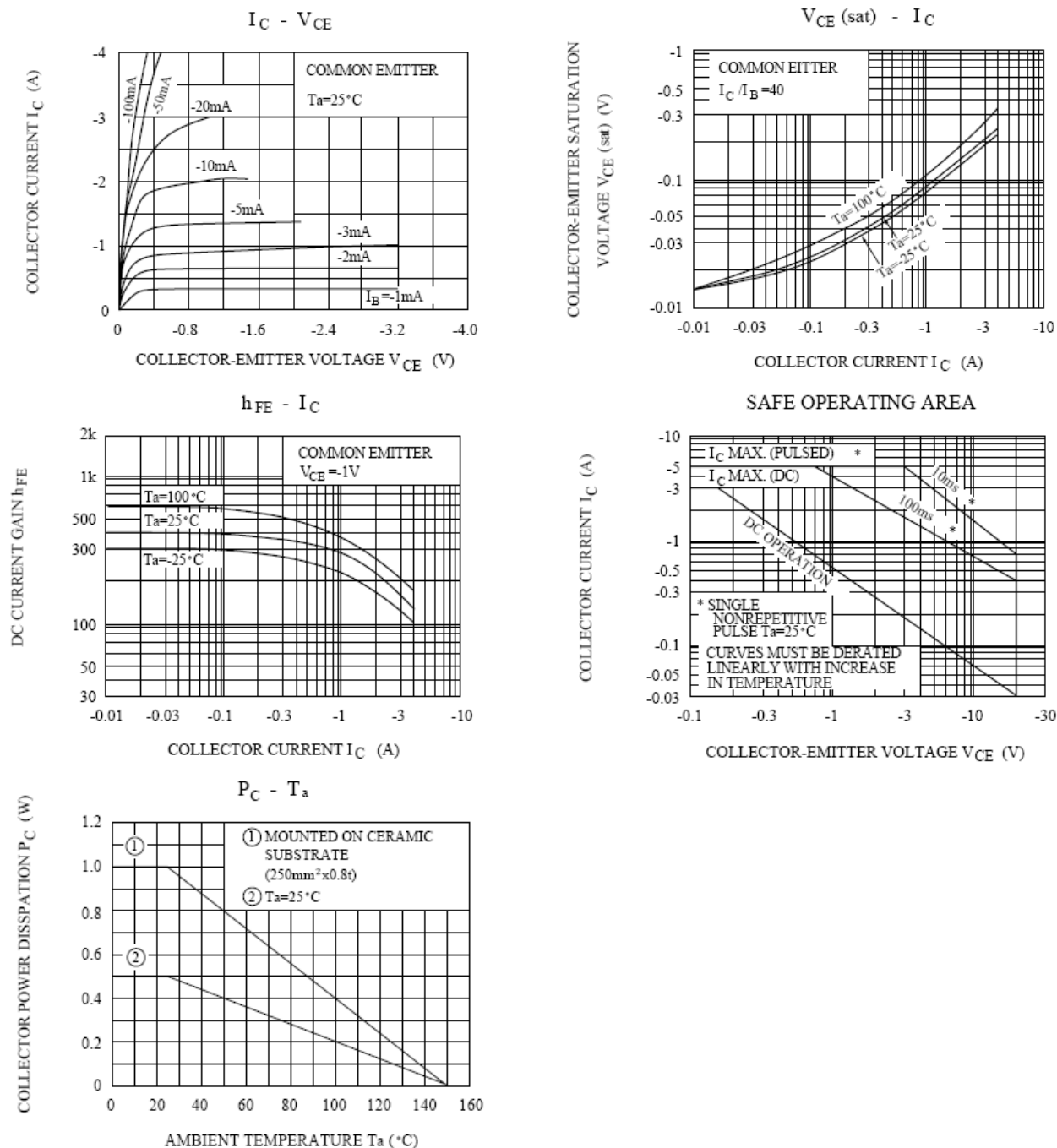
CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	100-200	160-320

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



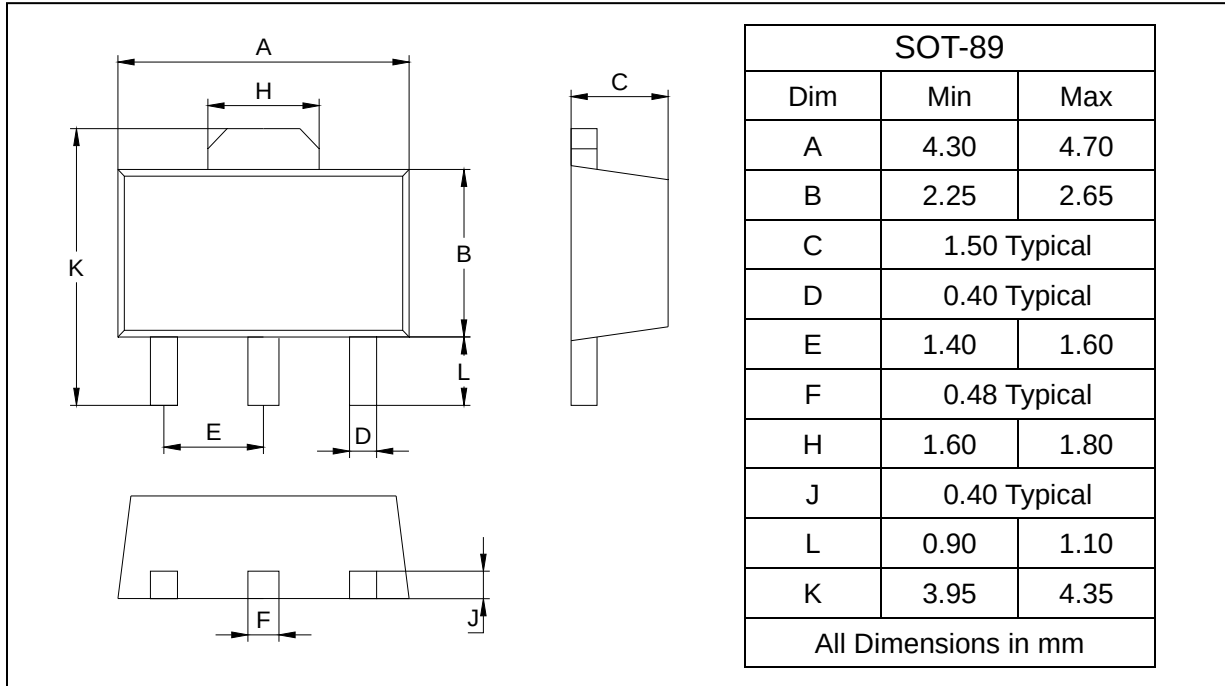
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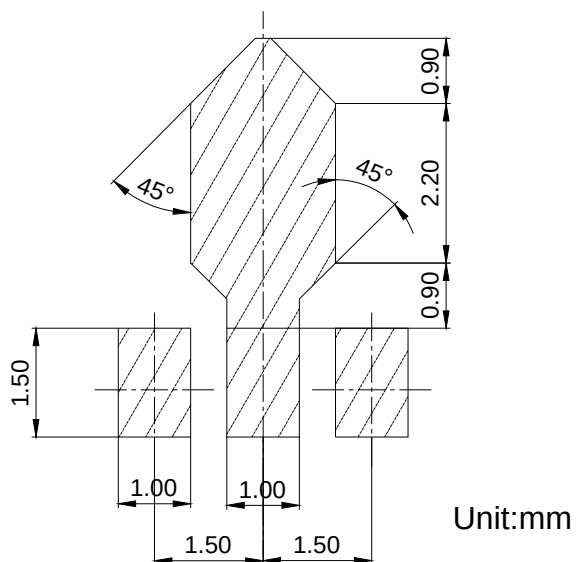
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
KTA1001	SOT-89	1000/Tape&Reel