

Features

• Amplifier dissipation NPN Silicon



2. BASE

3. COLLECTOR



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
KSC900LBU	TO-92	HXY MOSFET	1000



Maximum Ratings (Ta=25°C unless otherwise noted)

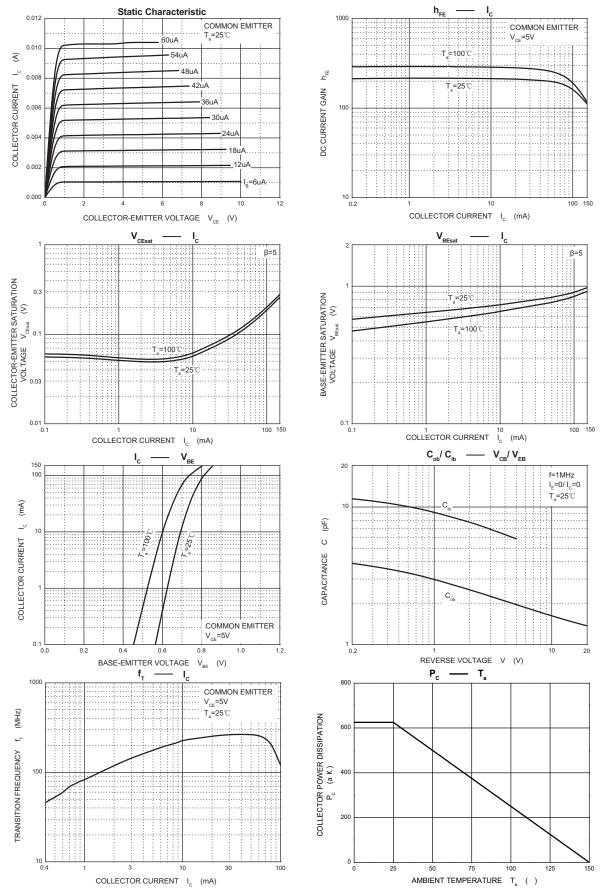
Symbol	Para meter Para meter	Value	Unit	
V _{CBO}	Collector-Base Voltage	50	V	
V _{CEO}	Collector-Emitter Voltage	45	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	0.1	Α	
Pc	Collector Power Dissipation	625	mW	
R _{0JA}	Thermal Resistance from Junction to Ambient	200	°C/W	
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C	

Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA,I _E =0	50		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	45		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =10μΑ,I _C =0	6		V
Collector cut-off current	I _{CBO}	V _{CB} =50V,I _E =0		0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =45V,I _B =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} =5V, I _C =2mA	420	800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C =100mA,I _B =5mA		0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I _C =100mA,I _B =5mA		1.1	V
Page emitter veltage	V _{BE}	V _{CE} =5V, I _C =2mA	0.58	0.7	V
Base-emitter voltage	V _{BE}	V _{CE} =5V, I _C =10mA		0.75	V
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0, f=1MHz		4.5	pF
Transition frequency	f _T	Vce=5V,lc=10mA, f=100MHz	150		MH

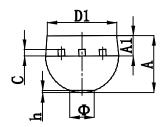


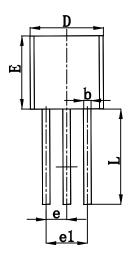
Typical Characteristics





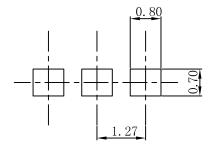
TO-92 Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	3.300	3.700	0.130	0.146	
A1	1.100	1.400	0.043	0.055	
b	0.380	0.550	0.015	0.022	
С	0.360	0.510	0.014	0.020	
D	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
E	4.300	4.700	0.169	0.185	
е	1.270 TYP		0.050 TYP		
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	

TO-92 Suggested Pad Layout



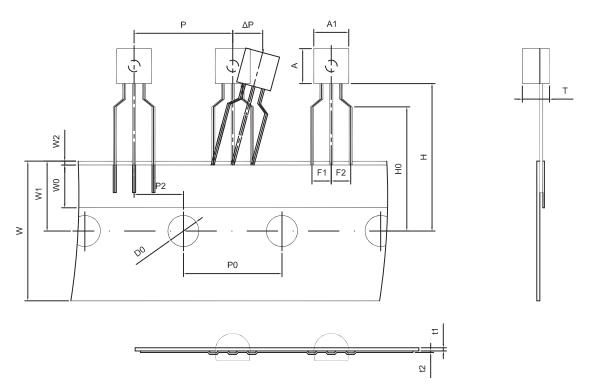
Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

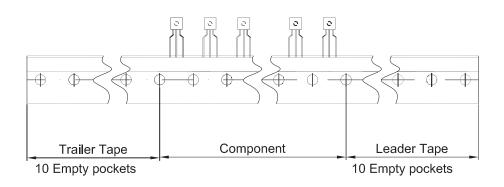


TO-92 Tape and Reel

TO-92 PACKAGE TAPING DIMENSION



	Dimiensions are in millimeter							
A1	A1 A T P P0 P2 F1 F2 W							
4.5	4.5	3.5	12.7	12.7	6.35	2.5	2.5	18.0
W0	W0 W1 W2 H H0 D0 t1 t2 ΔP							
6.0	9.0	1.0 MAX.	19.0	16.0	4.0	0.4	0.2	0



Package	Вох	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250



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