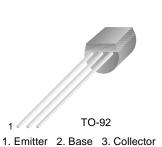


SEMICONDUCTOR®

KSP92/93

High Voltage Transistor



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

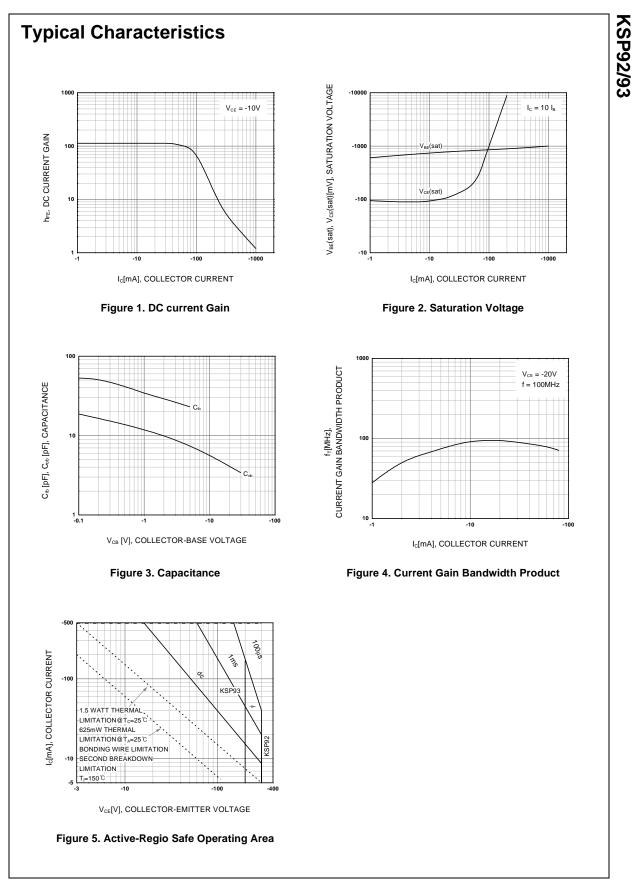
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: KSP92	-300	V
	: KSP93	-200	V
V _{CEO}	Collector-Emitter Voltage		
	: KSP92	-300	V
	: KSP93	-200	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current	-500	mA
Pc	Collector Power Dissipation (T _a =25°C)	625	mW
	Derate above 25°C	5	mW/°C
P _C	Collector Power Dissipation (T _C =25°C)	1.5	W
	Derate above 25°C	12	mW/°C
ТJ	Junction Temperature	150	°C
Т _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage : KSP92 : KSP93	I _C = -100μΑ, I _E =0	-300 -200		V
<u> </u>			-200		v
BV_{CEO}	* Collector-Emitter Breakdown Voltage : KSP92	I_{C} = -1mA, I_{B} =0	-300		v
	: KSP93		-200		v
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μA, I _C =0	-5		V
I _{CBO}	Collector Cur-off Current				
020	: KSP92	V _{CB} = -200V, I _E =0		-0.25	μΑ
	: KSP93	V _{CB} = -160V, I _E =0		-0.25	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = -3V, I _C =0		-0.10	μA
h _{FE}	* DC Current Gain	V _{CE} = -10V, I _C = -1mA	25		
		V_{CE} = -10V, I_{C} = -10mA	40		
		V _{CE} = -10V, I _C = -30mA	25		
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	I _C = -20mA, I _B = -2mA		-0.50	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -20mA, I _B = -2mA		-0.90	V
f _T	Current Gain Bandwidth Product	V _{CE} = -20V, I _C = -10mA, f=100MHz	50		MHz
C _{ob}	Output Capacitance				
	: KSP92	V _{CB} = -20V, I _E =0		6	pF
	: KSP93	f=1MHz		8	pF

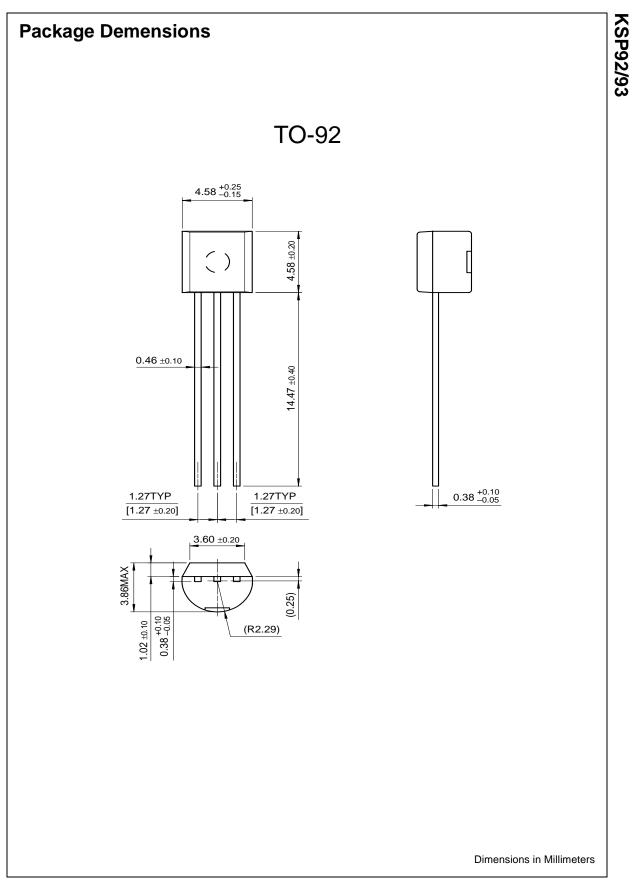
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KSP92/93



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