NPN Epitaxial Silicon Transistor

KSP10

Features

- VHF/UHF Transistor
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

ABSOLUTE MAXIMUM RATINGS

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Value	Unit
V _{CBO}	Collector Base Voltage	30	V
V _{CEO}	Collector Emitter Voltage	25	V
V _{EBO}	Emitter Base Voltage	3.0	V
PC	Collector Power Dissipation ($T_A = 25^{\circ}C$)	350	mW
	Derate above 25°C	2.8	mW/°C
PC	Collector Power Dissipation (T _C = 25° C)	1.0	W
	Derate above 25°C	8.0	W/∘C
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	55 to 150	°C
Rth(j c)	Thermal Resistance, Junction to Case	125	°C/W
Rth(ja)	Thermal Resistance, Junction to Ambient	357	°C/W

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



TO-92-3 CASE 135AN

TO-92 LF CASE 135AR

MARKING DIAGRAM



A = Assembly Code KSP10 = Device Code Y = Year WW = Work Week

ORDERING INFORMATION

Device	Package	Shipping
KSP10BU	TO 923 (Pb Free)	10000 / Bulk Bag
KSP10TA	TO 92 3 LF (Pb Free)	2000 / Fan Fold

KSP10

ELECTRICAL CHARACTERISTICS (Values are at $T_A = 25^{\circ}C$ unless otherwise noted.)

Symbol	Parameter	Conditions	Min	Max	Unit
BV _{CBO}	Collector Base Breakdown Voltage	$I_{C} = 100 \ \mu A, \ I_{E} = 0$	30		

KSP10

TYPICAL CHARACTERISTICS (CONTINUED)





TO-92 3 4.83x4.76 LEADFORMED CASE 135AR ISSUE O

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