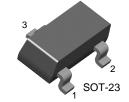


KSR2113

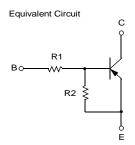
Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R_1 =2.2 $K\Omega$, R_2 =47 $K\Omega$)
- Complement to KSR1113



1. Base 2. Emitter 3. Collector





PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

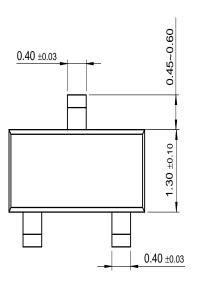
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-10	V
I _C	Collector Current	-100	mA
P _C	Collector Power Dissipation	200	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

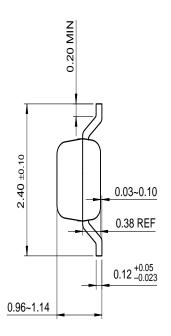
Electrical Characteristics T_a=25°C unless otherwise noted

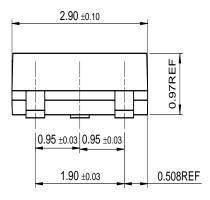
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I_{C} = -10 μ A, I_{E} =0	-50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -100 \mu A, I_B = 0$	-50			V
I _{CBO}	Collector Cutoff Current	V_{CB} = -40V, I_{E} =0			-0.1	μΑ
h _{FE}	DC Current Gain	V_{CE} = -5V, I_{C} = -5mA	68			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -0.5mA			-0.3	V
f _T	Current Gain Bandwidth Product	V_{CE} = -10V I_{C} =-5mA		200		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0 f=1.0MHz		5.5		pF
V _I (off)	Input Off Voltage	V_{CE} = -5V, I_{C} = -100 μ A	-0.5			V
V _I (on)	Input On Voltage	$V_{CE} = -0.2V, I_{C} = -10mA$			-1.1	V
R ₁	Input Resistor		1.5	2.2	2.9	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.042	0.047	0.052	

Package Dimensions

SOT-23







Dimensions in Millimeters

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EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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