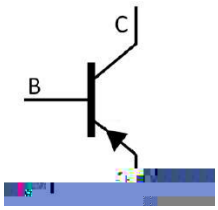
SOT-23 PNP Silicon PNP transistor in a SOT-23 Plastic Package.

, , KSC3265

High h_{FE}, low saturation voltage, complementary pair with KSC3265.

,

Low frequency power amplifier, power switching application.



PIN 1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	100 200	160 320
Marking	HIO	HIY

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-800	mA
Base Current	I_B	-160	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-30			V
Collector to Emitter Breakdown Voltage	V_{EBO}	I_E=-1.0mA I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-30V I_E=0			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-1.0V I_C=-100mA	100		320	
	$h_{FE(2)}$	V_{CE}=-1.0V I_C=-800mA	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-500mA I_B=-20mA			-0.4	V
Base to Emitter Voltage	V_{BE}	V_{CE}=-1.0V I_C=-10mA	-0.5		-0.8	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-10mA		120		MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz		13		pF

/ Electrical Characteristic Curve