

KSC3265

NPN EPITAXIAL SILICON TRANSISTOR

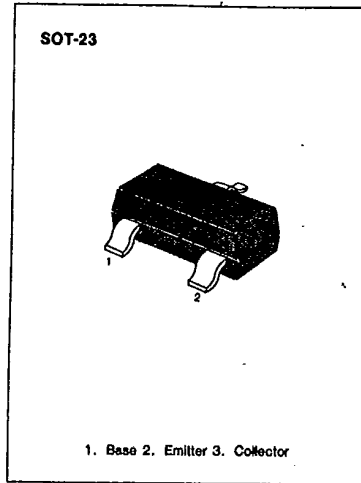
LOW FREQUENCY AMPLIFIER

• Complement to KSA1298

ABSOLUTE MAXIMUM RATINGS (T_a = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	30	V
Collector-Emitter Voltage	V _{CE0}	25	V
Emitter-Base Voltage	V _{EB0}	5	V
Collector Current	I _c	800	mA
Base Current	I _b	160	mA
Collector Dissipation	P _C	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~150	°C

• Refer to KSD261 for graphs



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ELECTRICAL CHARACTERISTICS (T_a = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _c = 10mA, I _b = 0	25			V
Emitter-Base Breakdown Voltage	BV _{EB0}	I _E = 1mA, I _c = 0	5			V
Collector Cutoff Current	I _{CB0}	V _{CB} = 30V, I _E = 0			100	nA
Emitter Cutoff Current	I _{EB0}	V _{EB} = 5V, I _c = 0			100	nA
DC Current Gain	h _{FE1}	V _{CE} = 1V, I _c = 100mA	100		320	
	h _{FE2}	V _{CE} = 1V, I _c = 800mA	40			
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _c = 500mA, I _b = 20mA			0.4	V
Base-Emitter On Voltage	V _{BE(on)}	V _{CE} = 1V, I _c = 10mA	0.5		0.8	V
Current Gain Bandwidth Product	f _T	V _{CE} = 5V, I _c = 10mA		120		MHz
Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0 I = 1MHz		13		pF

h_{FE} (1) CLASSIFICATION

Classification	O	Y
h _{FE} (1)	100-200	160-320

