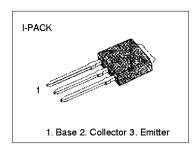
POWER AMPLIFIER APPLICATIONS

- Low Collector Emitter Saturation Voltage
 Complement to KSC3076

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V _{CBO}	- 55	٧
Collector Emitter Voltage	V _{CEO}	- 50	V
Emitter Base Voltage	V _{EBO}	- 5	V
Base Current	I _B	- 1	A
Collector Current	l _C	- 2	Α
Collector Dissipation (T _A =25°C)	Pc	1	w
Collector Dissipation (T _C =25°C)	Pc	10	w
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	- 55~150	°C



ELECTRICAL CHARACTERISTICS (T_C =25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Collector Emitter Sustaining Voltage	BV _{c∈o}	I _C = - 10mA, I _B = 0	- 50			٧
Collector Cutoff Current	I _{CBO}	$V_{CB} = -50V, I_{E} = 0$			- 1	μА
Emitter Cutoff Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$			- 1	μА
DC Current Gain	h _{FE1}	V _{CE} = - 2V, I _C = - 0.5A	70		240	
	h _{FE2}	V _{CE} = - 2V, I _C = - 1.5A	40			
Collector Emitter Saturation Voltage	V _{CE} (sat)	I _C = - 1A, I _B = - 0.05A			- 0.5	٧
Base Emitter Saturation Voltage	V _{BE} (sat)	I _C = - 1A, I _B = - 0.05A			- 1.2	٧
Current Gain Bandwidth Product	fΤ	V _{CE} = - 2V, I _C = - 0.5A		100		MHz
Output Capacitance	C _{OB}	$V_{CB} = -10V, f = 1MHz$		40		рF
Turn On Time	t _{ON}	V _{CC} = - 30V		0.1		μs
Storage Time	t _{sra}	$-I_{B}1 = I_{B}2 = 0.05A$		1		μs
Fall Time	t⊨			0.1		μs

h_{FE} (1) CLASSIFICATION

Classification	0	Y
h _{FE} 1	70~140	120-240



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