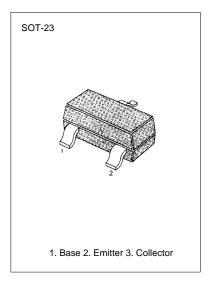
GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

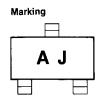
Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Storage Temperature	V _{CBO} V _{CEO} V _{EBO} I _C P _C T _{STG}	45 45 5 200 350 150	V V V mA mW °C

Refer to KS3904 for graphs



ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =2.0mA, I _B =0	45		V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_{E}=1.0\mu A, I_{C}=0$	5		V
Collector Cut-off Current	ICES	V _{CE} =32V, V _{BE} =0		20	nA
Emitter Cut-off Current DC Current Gain	I _{EBO}	V _{EB} =4V, I _C =0	40	20	nA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =10μA V _{CE} =5V, I _C =2.0mA	250	460	
		V _{CE} =3V, I _C =2.011A V _{CE} =1V, I _C =50mA	90	400	
Collector-Emitter Saturation Voltage	\/ (+\)	I _C =10mA, I _B =0.25mA	90	0.35	V
	V _{CE} (sat)	I _C =50mA, I _B =1.25mA		0.55	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	I _C =10mA, I _B =0.25mA	0.6	0.85	V
Dase Emilier dataration voltage	VBE (Sat)	I _C =50mA, I _B =1.25mA	0.0	1.05	v
Base-Emitter On Voltage	V _{RF} (on)	$I_C=2.0$ mA, $V_{CE}=5$ V	0.55	0.75	V
Current Gain Bandwidth Product	f _T	I _C =10mA, V _{CE} =5V	125		MHz
Output Capacitance	C _{OB}	V _{CB} =10V, I _E =0		4.5	pF
Carpat Capacitanics	O 08	f=1MHz		1.0	ρ.
Noise Figure	NF	$V_{CE}=5V$, $I_{C}=0.2mA$		6	dB
· ·		$R_S=2K\Omega$, $f=1KHz$			
Turn On Time	T _{ON}	I _C =10mA, I _{B1} =1.0mA		150	ns
Turn Off Time	T _{OFF}	V _{BB} =3.6V, I _{B2} =1.0mA		800	ns
		$R_1=R_2=5K\Omega$, $R_L=990\Omega$			





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