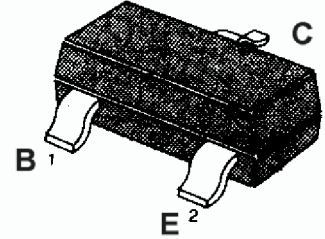


APPLICATION: General Purpose Amplifier Applications.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	40	V
Collector-emitter voltage	V_{CEO}	20	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	1250	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^\circ\text{C}$

SOT-23


1.Base 2 .Emitter 3 .Collector

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	300				$V_{CE}= 1V, I_C= 100mA$
Collector Cut-off Current	I_{CB0}			0.1	μA	$V_{CB}= 35V, I_E=0$
Emitter Cut-off Current	I_{EBO}			0.1	μA	$V_{EB}= 6V, I_C=0$
Collector-Base Breakdown Voltage	BV_{CB0}	40			V	$I_C= 0.1mA, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	20			V	$I_C= 1mA, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	6			V	$I_E= 0.1mA, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.55	V	$I_C= 600mA, I_B= 60mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			1.2	V	$I_C= 600mA, I_B= 60mA$
Gain bandwidth product	f_T	100			MHz	$I_C= 50mA, V_{CE}= 10V$
Common Base Output Capacitance	C_{ob}		9		PF	$V_{CB}= 10V, I_E=0, f= 1MHz$

 h_{FE} **Classification And Marking**

Print Mark	K8B	K8C	K8D	K8E
Classification	B	C	D	E
h_{FE}	300~550	500~700	650~1000	>1000