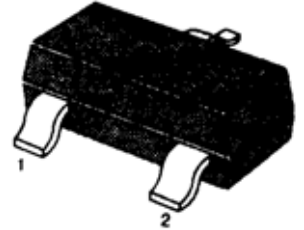


■ ■ APPLICATION: General purpose applications.

■ ■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	50	V
Collector-emitter voltage	V _{CEO}	45	V
Emitter-base voltage	V _{EBO}	6	V
Collector current	I _c	100	mA
Collector Power Dissipation	P _c	300	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



1.Base 2 .Emitter 3 ..Collector

■ ■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	110		800		V _{CE} =5 V, I _c =2 mA
Collector Cut-off Current	I _{CBO}			0.015	μA	V _{CB} = 30V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.015	μA	V _{EB} = 5V, I _c =0
Collector-Base Breakdown Voltage	BV _{CBO}	50			V	I _c = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	45			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)}		0.09	0.25	V	I _c = 10mA, I _B = 0.5mA
			0.2	0.6	V	I _c = 100mA, I _B = 5mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		0.7		V	I _c = 10mA, I _B = 0.5mA
			0.9		V	I _c = 100mA, I _B = 5mA
Gain bandwidth product	f _T	150	300		MHz	I _c = 10mA, V _{CE} = 5V
Common Base Output Capacitance	C _{ob}			6	PF	V _{CB} = 10V, I _E =0, f = 1MHz

■ ■ h_{FE} Classification And Marking

Print Mark	1Hs	1Ht	1Hu
Classification	s	t	u
h _{FE}	110~220	200~450	420~800