

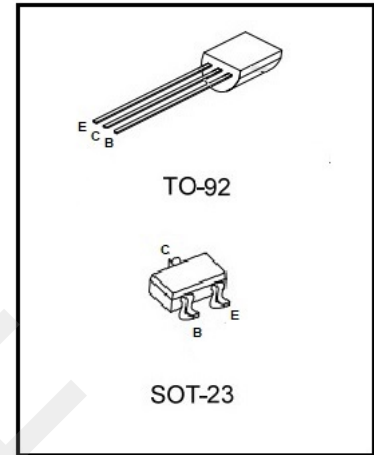
M28S

Features

- Package: TO-92/SOT-23

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating		Unit
Collector-base voltage	BV_{CBO}	40		V
Collector-emitter voltage	BV_{CEO}	20		V
Emitter-base voltage	BV_{EBO}	6		V
Collector current	I_{CM}	1		A
Collector Power Dissipation	P_C	TO-92	625	mW
		SOT-23	200	
Junction Temperature	T_j	125		°C
Storage Temperature	T_{stg}	-55~+125		°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=0.1mA, I_E=0$	40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA, I_B=0$	20			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=0.1mA, I_C=0$	6			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=40V, I_E=0$			1	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE}=20V, I_B=0$			5	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB}=6V, I_C=0$			0.1	μA
DC current gain	H_{FE}	$V_{CE}=1V, I_C=100mA$	300		1000	
	H_{FE1}	$V_{CE}=1V, I_C=1mA$	290			
	H_{FE2}	$V_{CE}=10V, I_C=300mA$	300			
	H_{FE3}	$V_{CE}=1V, I_C=500mA$	300			
Collector-emitter saturation voltage	V_{CESAT}	$I_C=600mA, I_B=20mA$			0.55	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C=100mA, I_B=10mA$			1.0	
Transition frequency	f_T	$V_{CE}=15V, I_C=50mA$	100			MHz

Classification of H_{FE}

Rank	B	C	D
Range	300-550	500-700	650-1000