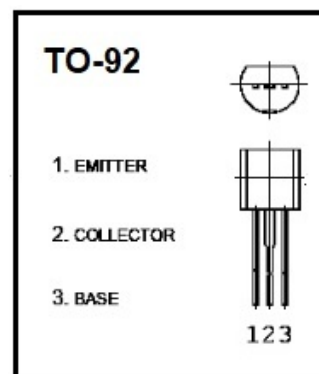


2SD1863

- **Package: TO-92**

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	100	V
Collector-emitter voltage	BV_{CEO}	80	V
Emitter-base voltage	BV_{EBO}	5	V
Collector current	I_{CM}	1	A
Collector Power Dissipation	P_C	0.625	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	100		V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, I_B=0$	80		V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	5		V
collector-base cut-off current	I_{CBO}	$V_{CB}=80V, I_E=0$		1.0	μA
emitter-base cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$		1.0	μA
DC current gain	H_{FE}	$V_{CE}=3V, I_C=0.5A$	180	390	
collector-emitter saturation voltage	V_{CESAT}	$I_C=0.5A, I_B=20mA$		0.4	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C=0.5A, I_B=20mA$		1.2	
Transition frequency	f_T	$V_{CE}=5-10V, I_C=50mA$	100		MHz

Classification of H_{FE}

Rank	2SD1863-B	2SD1863-C	2SD1863-D
Range	180-220	200-300	300-390