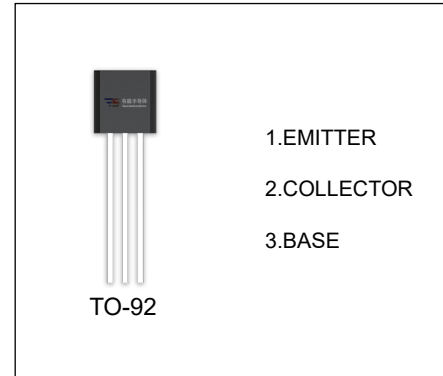


2N5832 TRANSISTOR (NPN)

FEATURES

- General Purpose Switching Application



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2N5832	TO-92	Bulk	1000pcs/Bag
2N5832-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	140	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	0.6	A
P _D	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance rom Junction to Ambient	200	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=0.1\text{mA}, I_E=0$	160			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	140			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=0.01\text{mA}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=120\text{V}, I_E=0$			0.05	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.05	μA
DC current gain	h_{FE}	$V_{CE}=5\text{V}, I_C=10\text{mA}$	175		500	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			0.25	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			1	V
Base-emitter voltage	V_{BE}	$V_{CE}=5\text{V}, I_C=1\text{mA}$			0.8	V
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$			4	pF
Transition frequency	f_T	$V_{CE}=10\text{V}, I_C=1\text{mA}, f=100\text{MHz}$	100			MHz