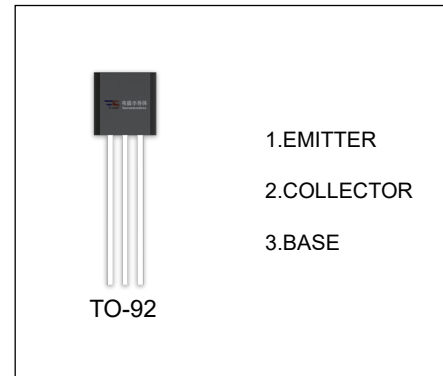


## 2N6718 TRANSISTOR (NPN)

### FEATURES

- General Purpose Switching Application



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2N6718	TO-92	Bulk	1000pcs/Bag
2N6718-TA	TO-92	Tape	2000pcs/Box

### MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CB0}$	Collector-Base Voltage	100	V
$V_{CE0}$	Collector-Emitter Voltage	100	V
$V_{EB0}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current	1	A
$P_C$	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	$^{\circ}\text{C}/\text{W}$
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=0.1\text{mA}, I_E=0$	100			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	100			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=100\text{V}, I_E=0$			1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$			1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$ *	$V_{CE}=1\text{V}, I_C=50\text{mA}$	80			
	$h_{FE(2)}$ *	$V_{CE}=1\text{V}, I_C=250\text{mA}$	50		250	
	$h_{FE(3)}$ *	$V_{CE}=1\text{V}, I_C=500\text{mA}$	20			
Collector-emitter saturation voltage	$V_{CE(sat)(1)}$ *	$I_C=250\text{mA}, I_B=10\text{mA}$			0.5	V
	$V_{CE(sat)(2)}$ *	$I_C=250\text{mA}, I_B=25\text{mA}$			0.35	V
Base-emitter voltage	$V_{BE}$	$V_{CE}=1\text{V}, I_C=250\text{mA}$			1.2	V
Collector output capacitance	$C_{ob}$	$V_{CB}=10\text{V}, f=1\text{MHz}$			30	pF
Transition frequency	$f_T$	$V_{CE}=10\text{V}, I_C=50\text{mA}$	50			MHz

\*Pulse test: pulse width  $\leq 300\mu\text{s}$ , duty cycle  $\leq 2.0\%$ .

Static Characteristic

