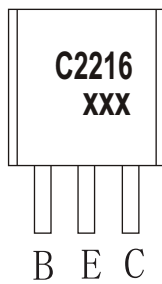


## 2SC2216 TRANSISTOR (NPN)

### FEATURES

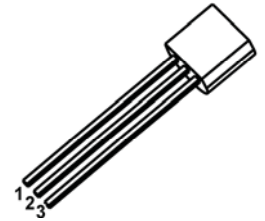
- Amplifier Dissipation NPN Silicon

### MARKING

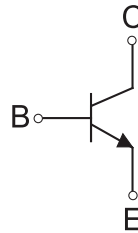


### TO-92

1. BASE
2. EMITTER
3. COLLECTOR



### Equivalent Circuit



### ORDERING INFORMATION

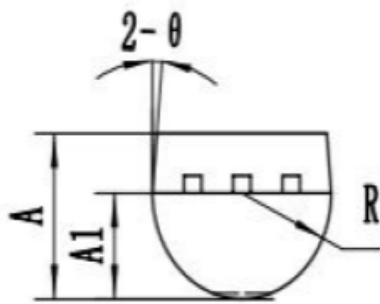
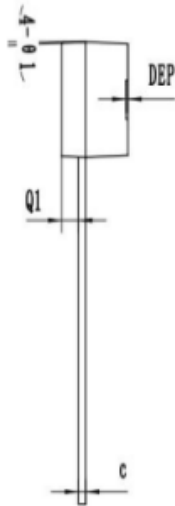
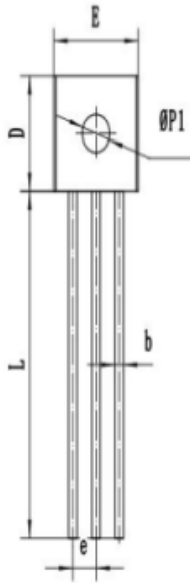
Part Number	Package	Packing Method	Pack Quantity
2SC2216	TO-92	Bulk	1000pcs/Bag

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	50	V
V <sub>CE0</sub>	Collector-Emitter Voltage	45	V
V <sub>EB0</sub>	Emitter-Base Voltage	4	V
I <sub>c</sub>	Collector Current -Continuous	0.05	A
P <sub>D</sub>	Collector Power Dissipation	300	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	417	°C /W
T <sub>J</sub> , T <sub>stg</sub>	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	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10\text{ mA}, I_B=0$	45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_C=0$	4			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=50\text{ V}, I_E=0$			0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=3\text{ V}, I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=12.5\text{V}, I_C=12.5\text{ mA}$	40		140	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{ mA}$			0.2	V
Bass-emitter saturation voltage	$V_{BE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{ mA}$			1.5	V
Transition frequency	$f_T$	$V_{CE}=12.5\text{ V}, I_C=12.5\text{mA}$	300			MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E=0,$ $f=30\text{MHz}$			2.0	pF



SYMBOL	MM		
	MIN	NOM	MAX
*A	3.00	3.25	3.50
A1	2.20	2.30	2.40
*b	0.40	0.45	0.50
*c	0.25	0.30	0.35
*D	4.50	4.60	4.70
*E	4.50	4.60	4.70
*e	1.22	1.27	1.32
*L	14.00	14.30	14.60
R	2.20	2.30	2.40
Q1	0.85	0.90	0.95
θ	3°	5°	7°
Ø1	1°	3°	5°
ØP1	1.40	1.50	1.60
DEP	0.05	0.10	0.20
带*为检验尺寸			