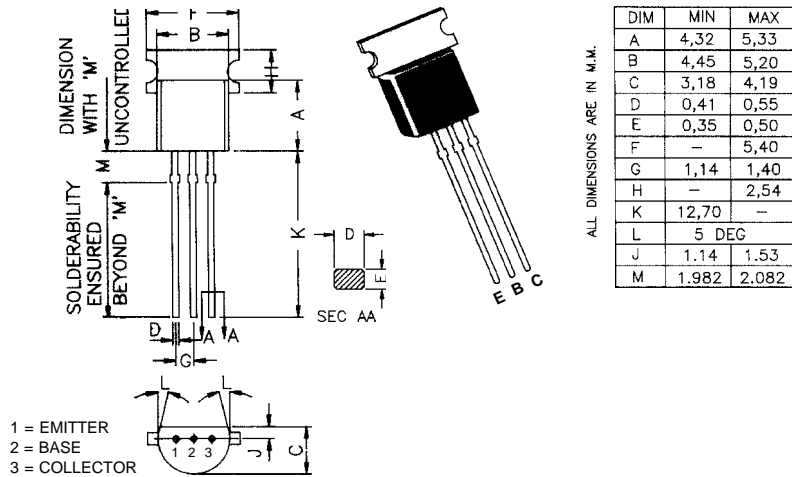


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***NPN SILICON PLANAR EPITAXIAL TRANSISTORS***

*Designed for General purpose Medium Power Amplifier and Switching Circuits.*



ALL DIMENSIONS ARE IN M.M.

DIM	MIN	MAX
A	4,32	5,33
B	4,45	5,20
C	3,18	4,19
D	0,41	0,55
E	0,35	0,50
F	—	5,40
G	1,14	1,40
H	—	2,54
K	12,70	—
L	5 DEG	
J	1.14	1.53
M	1.982	2.082

**ABSOLUTE MAXIMUM RATINGS**

Rating	Symbol	2N6714	2N6715	2N6716	Units
Collector-Emitter Voltage	$V_{CEO}$	30	40	60	V
Collector-Base Voltage	$V_{CBO}$	40	50	60	V
Emitter-Base Voltage	$V_{EBO}$	-	5.0	-	V
Collector Current – Continuous	$I_C$	-	1.5	-	A
Power Dissipation @ $T_a=25^\circ\text{C}$	$P_D$	-	850	-	mW
Operating And Storage Junction Temperature Range	$T_j, T_{stg}$	-55 to +150			$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_a = 25^\circ\text{C}$  unless otherwise specified)

Description		Symbol	Min.	Max.	Unit
<i>Collector Cutoff Current</i>					
$V_{CB}=40\text{V}, I_E=0$	<b>2N6714</b>	$I_{CBO}$	-	100	nA
$V_{CB}=50\text{V}, I_E=0$	<b>2N6715</b>		-	100	nA
$V_{CB}=40\text{V}, I_E=0$	<b>2N6716</b>		-	100	nA
<i>D.C. Current Gain</i>					
$I_C=10\text{mA}, V_{CE}=1\text{V}$	<b>2N6714/6715</b>	$h_{FE}$	55	-	
$I_C=100\text{mA}, V_{CE}=1\text{V}$	<b>2N6714/6715</b>		60	-	
$I_C=1\text{A}, V_{CE}=1\text{V}$	<b>2N6714/6715</b>		50	250	
$I_C=50\text{mA}, V_{CE}=1\text{V}$	<b>2N6716</b>		80	-	
$I_C=250\text{mA}, V_{CE}=1\text{V}$	<b>2N6716</b>		50	250	
$I_C=500\text{mA}, V_{CE}=1\text{V}$	<b>2N6716</b>		20	-	
<i>Collector-Emitter Saturation Voltage</i>					
$I_C=1\text{A}, I_B=100\text{mA}$	<b>2N6714/6715</b>	$V_{CE(sat)}$	-	0.5	V
$I_C=250\text{mA}, I_B=25\text{mA}$	<b>2N6716</b>		-	0.35	V
<i>Base Emitter on Voltage</i>					
$I_C=1\text{A}, V_{CE}=1\text{V}$	<b>2N6714/6715</b>	$V_{BE(on)}$	-	1.2	V
<b>DYNAMIC CHARACTERISTICS</b>					
<i>Output Capacitance</i>					
$V_{CB}=10\text{V}, I_E=0,$ $f=1\text{MHz}$	<b>ALL</b>	$C_{ob}$	-	20	pF
<i>Current-Gain-Bandwidth Product</i>					
$I_C=50\text{mA}, V_{CE}=1\text{V}$	<b>2N6714/6716</b>	$f_T$	50	500	MHz
	<b>2N6715</b>		50	400	MHz



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