

2N6714 2N6715 NPN  
2N6726 2N6727 PNP

**COMPLEMENTARY SILICON  
POWER TRANSISTORS**



**TO-237 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2N6714, 2N6726 series types are complementary silicon plastic power transistors designed for general purpose power amplifier and switching applications.

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Collector-Base Voltage

Collector-Emitter Voltage

Emitter-Base Voltage

Continuous Collector Current

Continuous Base Current

Power Dissipation

Power Dissipation ( $T_C=25^\circ\text{C}$ )

Operating and Storage Junction Temperature

Thermal Resistance

Thermal Resistance

SYMBOL	2N6714	2N6715	UNITS
	2N6726	2N6727	
$V_{CB0}$	40	50	V
$V_{CEO}$	30	40	V
$V_{EBO}$		5.0	V
$I_C$		2.0	A
$I_B$		0.5	A
$P_D$		1.0	W
$P_D$		2.0	W
$T_J, T_{stg}$	-65 to +150		$^\circ\text{C}$
$\theta_{JA}$		125	$^\circ\text{C/W}$
$\theta_{JC}$		62.5	$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

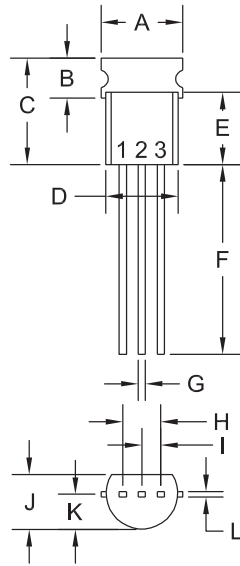
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_{CB0}$	$V_{CB}=\text{Rated } V_{CB0}$		0.1	$\mu\text{A}$
$I_{EBO}$	$V_{EB}=5.0\text{V}$		0.1	$\mu\text{A}$
$BV_{CB0}$	$I_C=1.0\text{mA}$ , (2N6714, 2N6726)	40		V
$BV_{CB0}$	$I_C=1.0\text{mA}$ , (2N6715, 2N6727)	50		V
$BV_{CEO}$	$I_C=10\text{mA}$ , (2N6714, 2N6726)	30		V
$BV_{CEO}$	$I_C=10\text{mA}$ , (2N6715, 2N6727)	40		V
$BV_{EBO}$	$I_E=1.0\text{mA}$	5.0		V
$V_{CE(\text{SAT})}$	$I_C=1.0\text{A}$ , $I_B=0.1\text{A}$		0.5	V
$V_{BE(\text{ON})}$	$V_{CE}=1.0\text{V}$ , $I_C=1.0\text{A}$		1.2	V
$h_{FE}$	$V_{CE}=1.0\text{V}$ , $I_C=0.1\text{A}$	60		
$h_{FE}$	$V_{CE}=1.0\text{V}$ , $I_C=1.0\text{A}$	50	250	
$f_T$	$V_{CE}=10\text{V}$ , $I_C=50\text{mA}$ , $f=20\text{MHz}$	50	500	MHz
$C_{ob}$	$V_{CB}=10\text{V}$ , $I_E=0$ , $f=1.0\text{MHz}$		30	pF

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TO-237 CASE - MECHANICAL OUTLINE



R1

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.160	0.215	4.06	5.46
B	0.095	0.105	2.41	2.67
C	0.260	0.280	6.60	7.11
D (DIA)	0.175	0.205	4.45	5.21
E	0.170	0.210	4.32	5.33
F	0.500	-	12.70	-
G	0.016	0.022	0.41	0.56
H	0.100		2.54	
I	0.050		1.27	
J	0.125	0.165	3.18	4.19
K	0.080	0.105	2.03	2.67
L	0.014	0.016	0.36	0.41

TO-237 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING: FULL PART NUMBER

R1 (31-July 2012)