

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

2N6714 2N6715 NPN
2N6726 2N6727 PNP

COMPLEMENTARY SILICON POWER TRANSISTOR

TO-237

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

	<u>SYMBOL</u>	<u>2N6714</u> <u>2N6726</u>	<u>2N6715</u> <u>2N6727</u>	<u>UNIT</u>
Collector-Base Voltage	V_{CBO}	40	50	V
Collector-Emitter Voltage	V_{CEO}	30	40	V
Emitter-Base Voltage	V_{EBO}	5.0	5.0	V
Collector Current	I_C	2.0	2.0	A
Base Current	I_B	0.5	0.5	A
Power Dissipation	P_D	1.0	1.0	W
Power Dissipation ($T_C=25^\circ\text{C}$)	P_D	2.0	2.0	W
Operating and Storage				
Junction Temperature	T_J, T_{stg}	-65 TO +150		$^\circ\text{C}$
Thermal Resistance	θ_{JA}	125		$^\circ\text{C}/\text{W}$
Thermal Resistance	θ_{JC}	62.5		$^\circ\text{C}/\text{W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNIT</u>
I_{CBO}	$V_{CB}=\text{Rated } V_{CBO}$		0.1	μA
I_{EBO}	$V_{EB}=\text{Rated } V_{EBO}$		0.1	μA
BV_{CBO}	$I_C=1.0\text{mA}$ (2N6714, 2N6726)	40		V
BV_{CBO}	$I_C=1.0\text{mA}$ (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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Quality Semi-Conductors