

2N6424
2N6425

**SILICON
PNP POWER TRANSISTORS**



TO-66 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6424 and 2N6425 are silicon PNP power transistors designed for high speed switching and high voltage amplifier applications.

MARKING: FULL PART NUMBER

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

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Peak Collector Current
Continuous Base Current
Peak Base Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL	2N6424	2N6425	UNITS
V_{CBO}	250	325	V
V_{CEO}	225	300	V
V_{EBO}	6.0		V
I_C	1.0		A
I_{CM}	2.0		A
I_B	0.5		A
I_{BM}	1.0		A
P_D	20		W
T_J, T_{stg}	-65 to +200		$^{\circ}\text{C}$
Θ_{JC}	8.75		$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=250\text{V}$ (2N6424)		0.1	mA
I_{CBO}	$V_{CB}=325\text{V}$ (2N6425)		0.1	mA
I_{CEV}	$V_{CE}=250\text{V}$, $V_{BE}=1.5\text{V}$ (2N6424)		0.5	mA
I_{CEV}	$V_{CE}=300\text{V}$, $V_{BE}=1.5\text{V}$ (2N6425)		0.5	mA
I_{CEV}	$V_{CE}=125\text{V}$, $V_{BE}=1.5\text{V}$, $T_C=100^{\circ}\text{C}$ (2N6424)		1.0	mA
I_{CEV}	$V_{CE}=200\text{V}$, $V_{BE}=1.5\text{V}$, $T_C=100^{\circ}\text{C}$ (2N6425)		1.0	mA
I_{CEO}	$V_{CE}=125\text{V}$ (2N6424)		0.25	mA
I_{CEO}	$V_{CE}=200\text{V}$ (2N6425)		0.25	mA
I_{EBO}	$V_{EB}=6.0\text{V}$		0.1	mA
BV_{CEO}	$I_C=5.0\text{mA}$, (2N6424)	225		V
BV_{CEO}	$I_C=5.0\text{mA}$, (2N6425)	300		V
$V_{CE(SAT)}$	$I_C=250\text{A}$, $I_B=25\text{mA}$		2.5	V
$V_{BE(ON)}$	$V_{CE}=10\text{V}$, $I_C=100\text{mA}$		1.0	V
h_{FE}	$V_{CE}=10\text{V}$, $I_C=50\text{mA}$	30		
h_{FE}	$V_{CE}=10\text{V}$, $I_C=100\text{mA}$	40	200	
h_{FE}	$V_{CE}=10\text{V}$, $I_C=250\text{mA}$	25		
h_{fe}	$V_{CE}=20\text{V}$, $I_C=100\text{mA}$, $f=1.0\text{kHz}$	35		
f_T	$V_{CE}=10\text{V}$, $I_C=100\text{mA}$, $f=10\text{MHz}$	10		MHz
C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1.0\text{MHz}$		120	pF

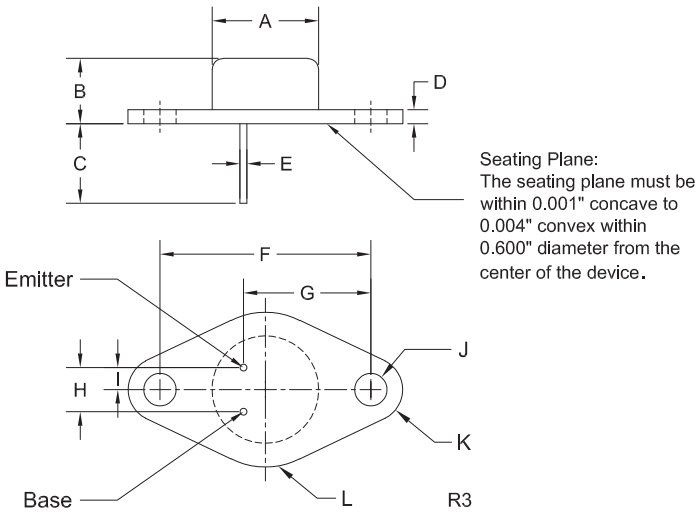
R1 (2-September 2014)

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TO-66 CASE - MECHANICAL OUTLINE



MARKING:
FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.470	0.500	11.94	12.70
B	0.250	0.340	6.35	8.64
C	0.360	-	9.14	-
D	0.050	0.075	1.27	1.91
E (DIA)	0.028	0.034	0.71	0.86
F	0.956	0.964	24.28	24.48
G	0.570	0.590	14.48	14.99
H	0.190	0.210	4.83	5.33
I	0.093	0.107	2.36	2.72
J (DIA)	0.142	0.152	3.61	3.86
K (RAD)	0.141		3.58	
L (RAD)	0.345		8.76	

TO-66 (REV:R3)

R1 (2-September 2014)

Mouser Electronics

Authorized Distributor

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