

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N6424
2N6425

PNP SILICON
POWER TRANSISTOR

JEDEC TO-66 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N6424 and 2N6225 types are PNP Silicon Power Transistors designed for high speed switching and high voltage amplifier applications.

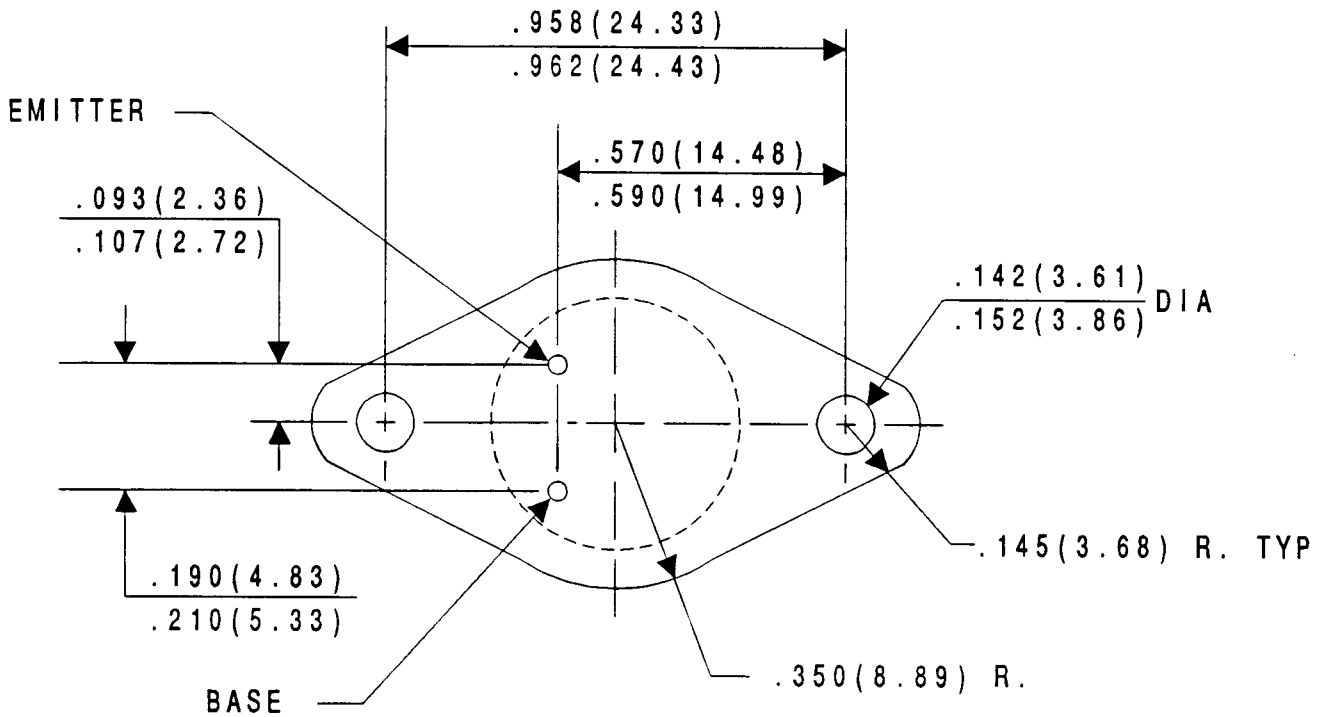
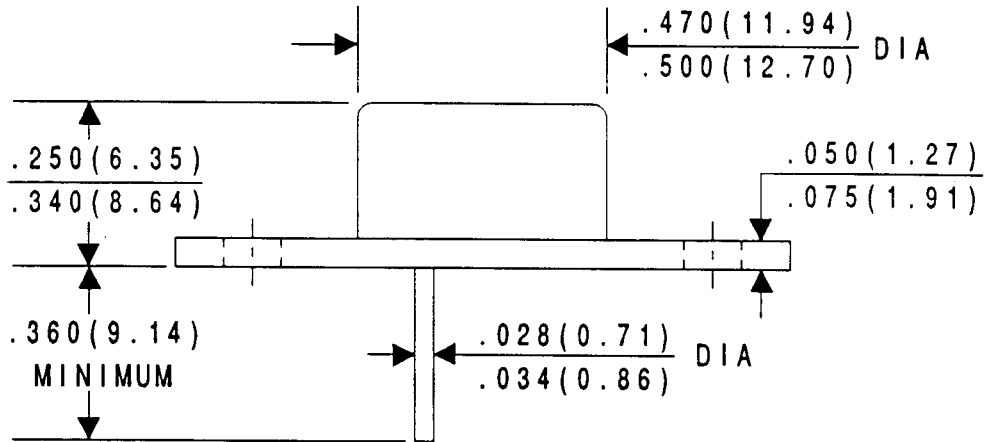
MAXIMUM RATINGS (T_C = 25°C)

	SYMBOL	2N6424	2N6425	UNITS
Collector-Base Voltage	V _{CBO}	250	325	V
Collector-Emitter Voltage	V _{CEO}	225	300	V
Emitter-Base Voltage	V _{EBO}	6.0	6.0	V
Collector Current	I _C	1.0	1.0	A
Peak Collector Current	I _{CM}	2.0	2.0	A
Base Current	I _B	0.5	0.5	A
Peak Base Current	I _{BM}	1.0	1.0	A
Power Dissipation	P _D	20	20	W
Operating and Storage				
Junction Temperature	T _J , T _{stg}	-65 to +200		°C
Thermal Resistance	θ _{JC}	8.75	8.75	°C/W

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N6424		2N6425		UNITS
		MIN	MAX	MIN	MAX	
I _{CEV}	V _{CE} = 250V, V _{BE(off)} = 1.5V		0.5			mA
I _{CEV}	V _{CE} = 300V, V _{BE(off)} = 1.5V			0.5		mA
I _{CEV}	V _{CE} = 125V, V _{BE(off)} = 1.5V, T _C = 100°C		1.0			mA
I _{CEV}	V _{CE} = 200V, V _{BE(off)} = 1.5V, T _C = 100°C			1.0		mA
I _{CBO}	V _{CE} = 250V		0.1			mA
I _{CBO}	V _{CE} = 325V			0.1		mA
I _{CEO}	V _{CE} = 125V		0.25			mA
I _{CEO}	V _{CE} = 200V			0.25		mA
I _{EBO}	V _{EB} = 6.0V		0.1		0.1	mA
BV _{CEO}	I _C = 5.0mA	225		300		V
V _{CE(SAT)}	I _C = 250mA, I _B = 25mA		2.5		2.5	V
V _{BE(ON)}	V _{CE} = 10V, I _C = 100mA		1.0		1.0	V
h _{FE}	V _{CE} = 10V, I _C = 50mA	30		30		
h _{FE}	V _{CE} = 10V, I _C = 100mA	40	200	40	200	
h _{FE}	V _{CE} = 10V, I _C = 250mA	25		25		
f _T	V _{CE} = 10V, I _C = 100mA, f = 10MHz	10		10		MHz
C _{ob}	V _{CB} = 10V, I _E = 0, f = 1.0MHz		120		120	pF
h _{fe}	V _{CE} = 20V, I _C = 100mA, f = 1.0kHz	35		35		

TO-66 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).