Central™
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Manufacturers of World Class Discrete Semiconductors

2N6246
2N6469

PNP SILICON POWER TRANSISTOR

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N6246, 2N6469 types are PNP Silicon Power Transistors manufactured by the epitaxial base process, mounted in a hermetically sealed metal case designed for general purpose switching and amplifier applications.

MAXIMUM RATINGS ($T_C = 25°C$)

	SYMBOL	2N6246	2N6469	UNITS
Collector-Base Voltage	V_{CBO}	70	50	V
Collector-Emitter Voltage	V_{CER}	70	50	V
Collector-Emitter Voltage	V_{CEO}	60	40	V
Emitter-Base Voltage	V_{EBO}	5.0		V
Continuous Collector Current	I_C	15		A
Continuous Base Current	I_B	5.0		A
Power Dissipation	P_D	125		W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200		°C
Thermal Resistance	Θ_{JC}	1.4		°C/W

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

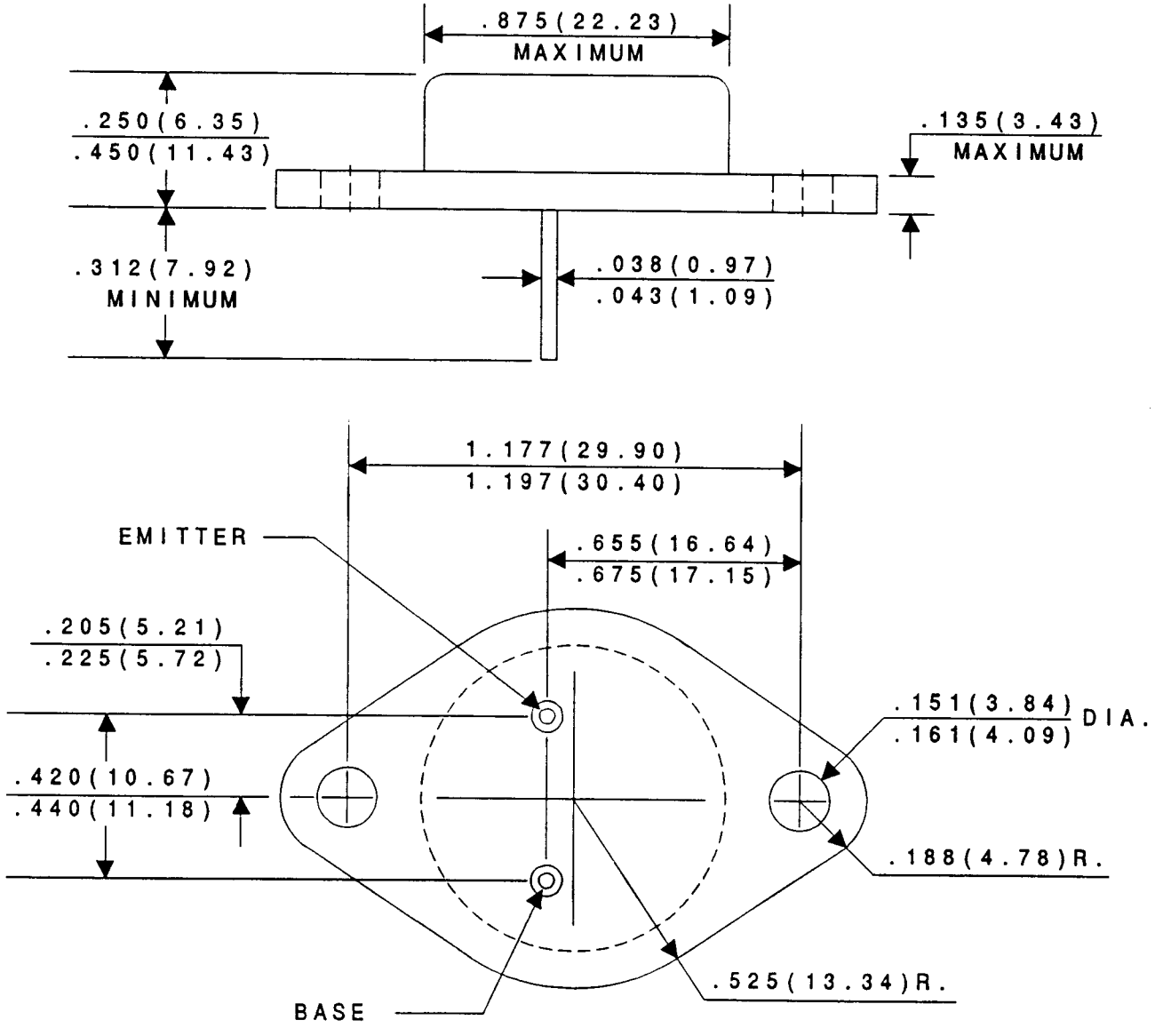
		2N6246		2N6469		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I_{CEV}	$V_{CE} = 45V$, $V_{BE} = 1.5V$				200	μA
I_{CEV}	$V_{CE} = 45V$, $V_{BE} = 1.5V$, $T_C = 150°C$				5.0	mA
I_{CEV}	$V_{CE} = 65V$, $V_{BE} = 1.5V$		200			μA
I_{CEV}	$V_{CE} = 55V$, $V_{BE} = 1.5V$, $T_C = 150°C$		5.0			mA
I_{CER}	$V_{CE} = 35V$, $R_{BE} = 100Ω$				200	μA
I_{CER}	$V_{CE} = 55V$, $R_{BE} = 100Ω$		200			μA
I_{CEO}	$V_{CE} = 20V$				1.0	mA
I_{CEO}	$V_{CE} = 30V$		1.0			mA
I_{EBO}	$V_{EB} = 5.0V$		5.0		5.0	mA
BV_{CER}	$I_C = 200mA$, $R_{BE} = 100Ω$	70		50		V
BV_{CEO}	$I_C = 200mA$	60		40		V
$V_{CE(SAT)}$	$I_C = 5.0A$, $I_B = 500mA$				1.3	V
$V_{CE(SAT)}$	$I_C = 7.0A$, $I_B = 700mA$		1.3			V
$V_{CE(SAT)}$	$I_C = 15A$, $I_B = 3.0A$		2.5			V
$V_{CE(SAT)}$	$I_C = 15A$, $I_B = 5.0A$				3.5	V
$V_{BE(ON)}$	$V_{CE} = 4.0V$, $I_C = 7.0A$		2.0			V
$V_{BE(ON)}$	$V_{CE} = 4.0V$, $I_C = 15A$				3.5	V

ELECTRICAL CHARACTERISTICS (CONTINUED)

SYMBOL	TEST CONDITIONS	2N6246 MIN	2N6246 MAX	2N6469 MIN	2N6469 MAX	UNITS
h_{FE}	V_{CE}=4.0V, I_C=5.0A			20	150	
h_{FE}	V_{CE}=4.0V, I_C=7.0A	20	100			
h_{FE}	V_{CE}=4.0V, I_C=15A	5.0		5.0		
f_T	V_{CE}=4.0V, I_C=1.0A, f=2.0MHz	10		10		MHz
h_{fe}	V_{CE}=4.0V, I_C=1.0A, f=1.0kHz	25		25		

JEDEC TO-3 CASE - MECHANICAL OUTLINE

All Dimensions in Inches (mm).



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