

CentralTM Semiconductor Corp.

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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)

SYMBOL	TEST CONDITIONS	2N6246		2N6469		UNITS
		MIN	MAX	MIN	MAX	
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		2N6469		UNITS
		MIN	MAX	MIN	MAX	
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).

