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CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

2N458A

PNP GERMANIUM
POWER TRANSISTOR

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N458A type is a PNP Germanium Alloy Junction Power Transistor manufacture in a hermetically sealed metal case, designed for high voltage amplifier and switching circuits.

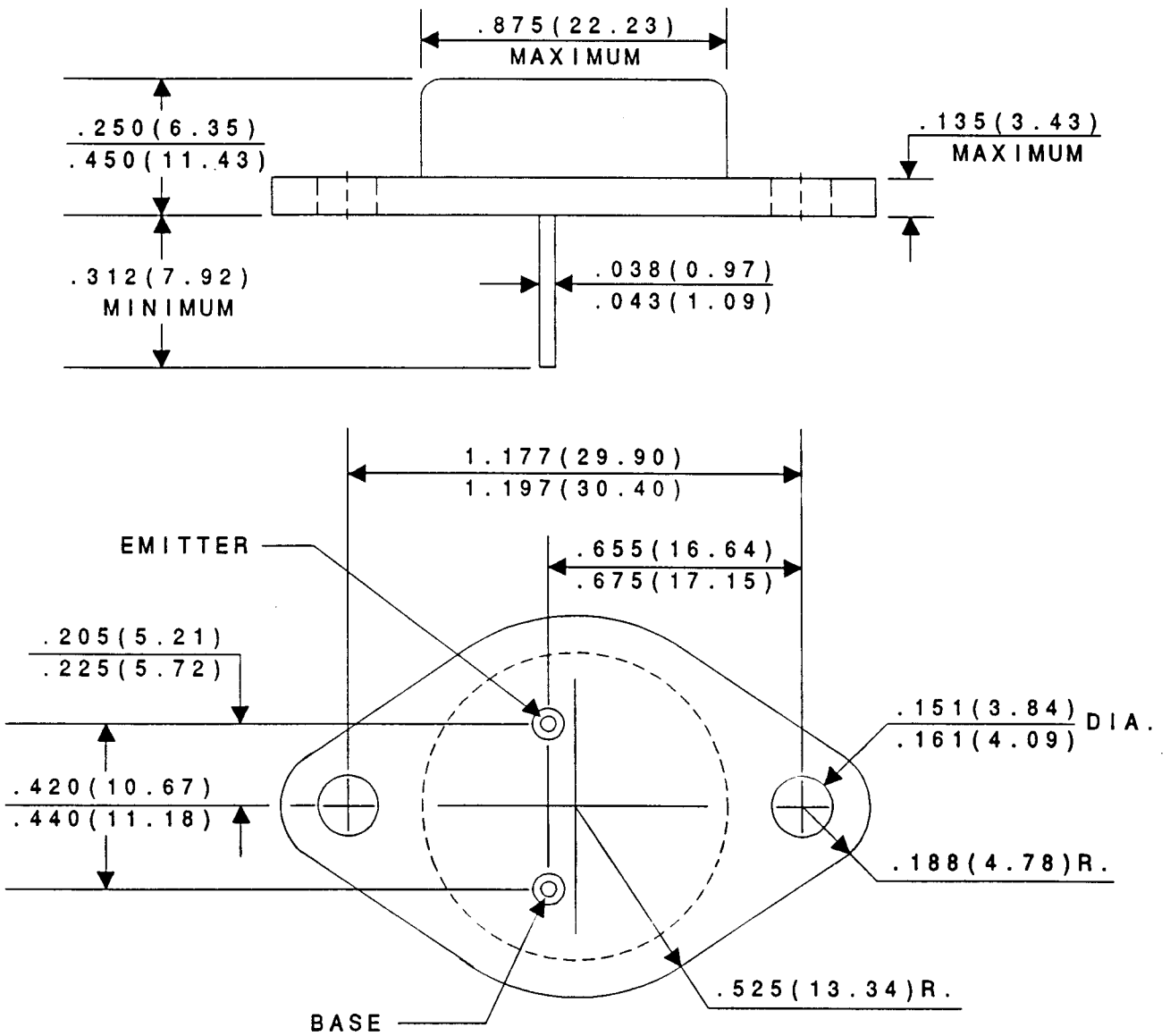
MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$)

	<u>SYMBOL</u>		<u>UNITS</u>
Collector-Base Voltage	V_{CB0}	80	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	30	V
Collector Current	I_C	7.0	A
Base Current	I_B	3.0	A
Power Dissipation	P_D	150	W
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-55 to +100	$^\circ\text{C}$
Thermal Resistance	Θ_{JC}	0.5	$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
I_{CBO}	$V_{CB} = 40\text{V}$		0.5	mA
I_{CBO}	$V_{CB} = 80\text{V}$		2.0	mA
BV_{CBO}	$I_C = 2.0\text{mA}$	80		V
BV_{CES}	$I_C = 50\text{mA}$	65		V
BV_{EBO}	$I_E = 2.0\text{mA}$	30		V
BV_{CER}	$I_C = 50\text{mA}, R_{BE} = 33\Omega$	67		V
BV_{CEO}	$I_C = 50\text{mA}$	45		V
$V_{CE(SAT)}$	$I_C = 5.0\text{A}, I_B = 500\text{mA}$		0.5	V
$V_{BE(ON)}$	$V_{CE} = 1.5\text{V}, I_C = 5.0\text{A}$		1.5	V
h_{FE}	$V_{CE} = 1.5\text{V}, I_C = 1.0\text{A}$	40		
h_{FE}	$V_{CE} = 1.5\text{V}, I_C = 3.0\text{A}$	35		
h_{FE}	$V_{CE} = 1.5\text{V}, I_C = 5.0\text{A}$	30	90	
h_{FE}	$V_{CE} = 1.5\text{V}, I_C = 7.0\text{A}$	22		
f_T	$V_{CE} = 2.0\text{V}, I_C = 1.0\text{A}$	200		kHz

JEDEC TO-3 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).