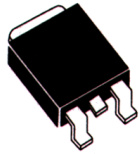




CJD2955 PNP
CJD3055 NPN

COMPLEMENTARY SILICON
POWER TRANSISTOR

DPAK POWER!



DPAK CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CJD2955, CJD3055 types are Complementary Silicon Power Transistors manufactured by the epitaxial base process, mounted in a surface mount package designed for high current amplifier and switching applications.

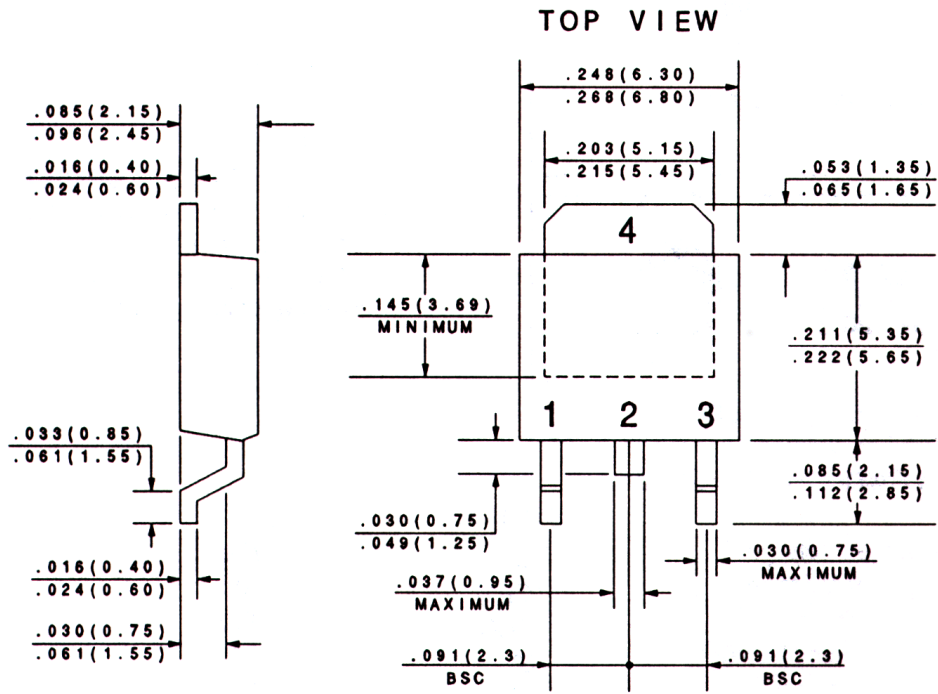
MAXIMUM RATINGS ($T_C=25^\circ\text{C}$)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	70	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	10	A
Base Current	I_B	6.0	A
Power Dissipation ($T_C=25^\circ\text{C}$)	P_D	20	W
Power Dissipation ($T_A=25^\circ\text{C}$)	P_D	1.75	W
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	θ_{JC}	6.25	$^\circ\text{C/W}$
Thermal Resistance	θ_{JA}	71.4	$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CEO}	$V_{CE}=30\text{V}$		50	μA
I_{CEV}	$V_{CE}=70\text{V}, V_{BE(\text{off})}=1.5\text{V}$		20	μA
I_{CEV}	$V_{CE}=70\text{V}, V_{BE(\text{off})}=1.5\text{V}, T_C=150^\circ\text{C}$		2.0	mA
I_{CBO}	$V_{CB}=70\text{V}$		20	μA
I_{CBO}	$V_{CB}=70\text{V}, T_C=150^\circ\text{C}$		2.0	mA
I_{EBO}	$V_{EB}=5.0\text{V}$		500	μA
BV_{CEO}	$I_C=30\text{mA}$	60		V
$V_{CE(\text{SAT})}$	$I_C=4.0\text{A}, I_B=400\text{mA}$		1.1	V
$V_{CE(\text{SAT})}$	$I_C=10\text{A}, I_B=3.3\text{A}$		8.0	V
$V_{BE(\text{ON})}$	$V_{CE}=4.0\text{V}, I_C=4.0\text{A}$		1.8	V
h_{FE}	$V_{CE}=4.0\text{V}, I_C=4.0\text{A}$	20	100	
h_{FE}	$V_{CE}=4.0\text{V}, I_C=10\text{A}$	5.0		
f_T	$V_{CE}=10\text{V}, I_C=500\text{mA}, f=1.0\text{MHz}$	2.0		MHz

All dimensions in inches (mm).



LEAD CODE:

- 1) BASE
- 2) COLLECTOR
- 3) EMITTER
- 4) COLLECTOR