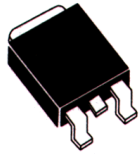




CJD2955 PNP  
CJD3055 NPN

COMPLEMENTARY SILICON  
POWER TRANSISTOR

DPAK POWER!



DPAK CASE

**Central**<sup>TM</sup>  
**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.

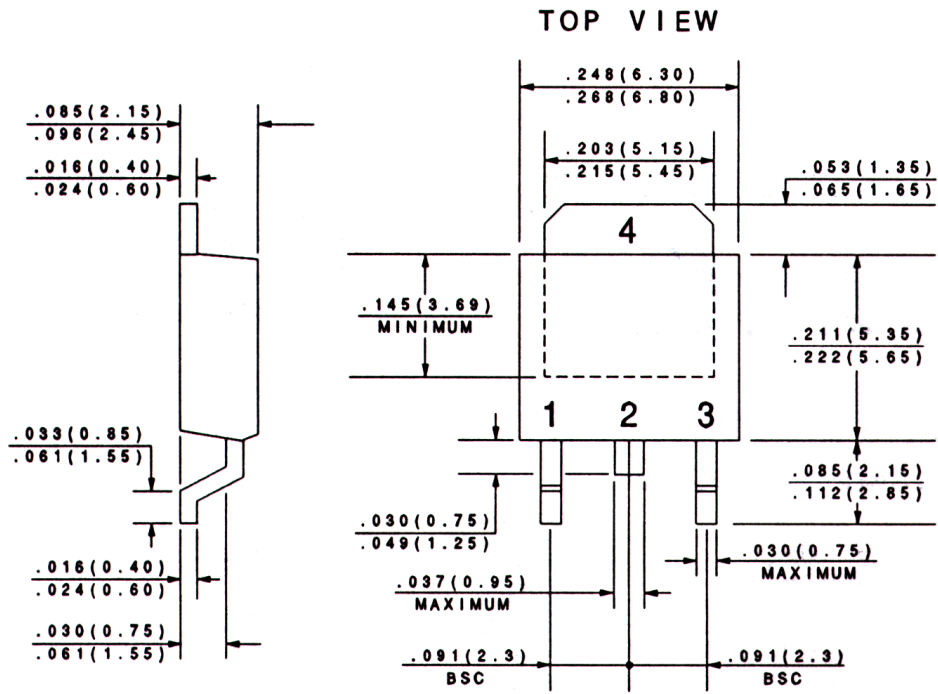
**MAXIMUM RATINGS** ( $T_C=25^\circ\text{C}$ )

	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	$\theta_{JC}$	6.25	$^\circ\text{C/W}$
Thermal Resistance	$\theta_{JA}$	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	$\mu\text{A}$
$I_{CEV}$	$V_{CE}=70\text{V}, V_{BE(\text{off})}=1.5\text{V}$		20	$\mu\text{A}$
$I_{CEV}$	$V_{CE}=70\text{V}, V_{BE(\text{off})}=1.5\text{V}, T_C=150^\circ\text{C}$		2.0	mA
$I_{CBO}$	$V_{CB}=70\text{V}$		20	$\mu\text{A}$
$I_{CBO}$	$V_{CB}=70\text{V}, T_C=150^\circ\text{C}$		2.0	mA
$I_{EBO}$	$V_{EB}=5.0\text{V}$		500	$\mu\text{A}$
$BV_{CEO}$	$I_C=30\text{mA}$	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



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