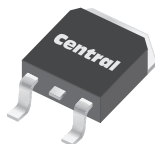


CJD340 NPN
CJD350 PNP

**SURFACE MOUNT SILICON
COMPLEMENTARY
POWER TRANSISTORS**

DPAK
POWER!



DPAK CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CJD340 and CJD350 are complementary silicon power transistors manufactured in a surface mount package, and designed for high voltage general purpose applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Continuous Collector Current	I_C	500	mA
Peak Collector Current	I_{CM}	750	mA
Power Dissipation	P_D	15	W
Power Dissipation ($T_A=25^{\circ}\text{C}$)	P_D	1.56	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	θ_{JC}	8.33	$^{\circ}\text{C/W}$
Thermal Resistance	θ_{JA}	80.1	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	$V_{CB}=300\text{V}$		100	μA
I_{CEO}	$V_{CE}=300\text{V}$		100	μA
I_{EBO}	$V_{EB}=3.0\text{V}$		100	μA
BV_{CEO}	$I_C=1.0\text{mA}$	300		V
$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$ (CJD340)		1.0	V
$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$ (CJD350)		2.6	V
$V_{BE(ON)}$	$V_{CE}=10\text{V}, I_C=1.0\text{A}$ (CJD340)		1.5	V
$V_{BE(ON)}$	$V_{CE}=10\text{V}, I_C=1.0\text{A}$ (CJD350)		2.0	V
h_{FE}	$V_{CE}=10\text{V}, I_C=50\text{mA}$	30	240	
f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}, f=10\text{MHz}$	10		MHz

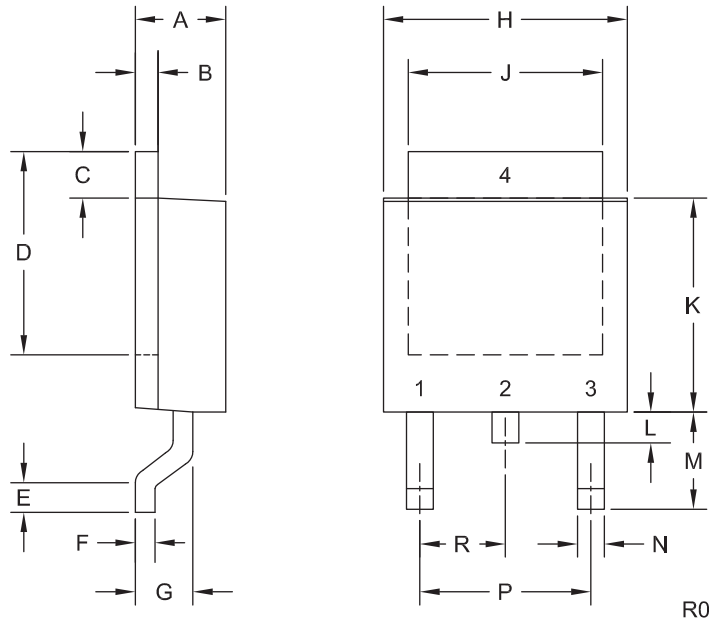
R5 (11-June 2013)

CJD340 NPN
CJD350 PNP

**SURFACE MOUNT SILICON
COMPLEMENTARY
POWER TRANSISTORS**



DPAK CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Base
- 2) Collector
- 3) Emitter
- 4) Collector

MARKING:

FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.083	0.108	2.10	2.75
B	0.016	0.032	0.40	0.81
C	0.035	0.063	0.89	1.60
D	0.203	0.228	5.15	5.79
E	0.020	-	0.51	-
F	0.018	0.024	0.45	0.60
G	0.051	0.071	1.30	1.80
H	0.248	0.268	6.30	6.81
J	0.197	0.217	5.00	5.50
K	0.209	0.245	5.30	6.22
L	0.025	0.040	0.64	1.02
M	0.090	0.115	2.30	2.91
N	0.012	0.045	0.30	1.14
P	0.180		4.60	
R	0.090		2.30	

DPAK (REV: R0)

R5 (11-June 2013)

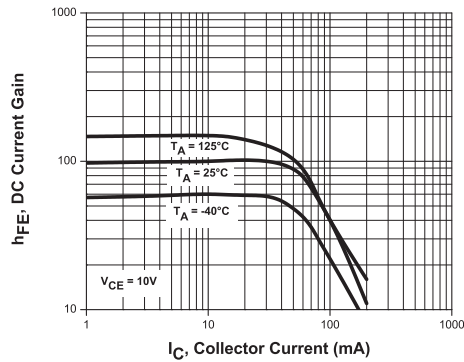
CJD340 NPN
CJD350 PNP

**SURFACE MOUNT SILICON
COMPLEMENTARY
POWER TRANSISTORS**

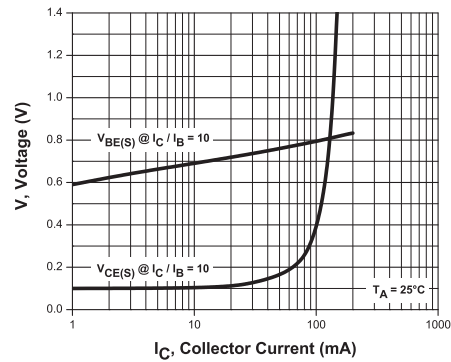


NPN TYPICAL ELECTRICAL CHARACTERISTICS

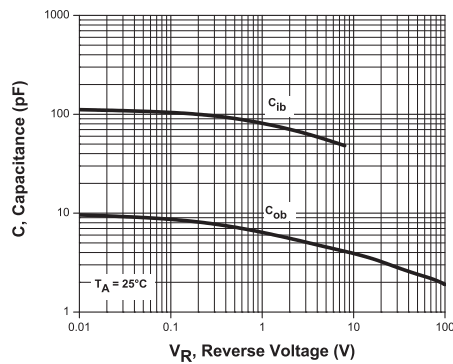
DC Current Gain



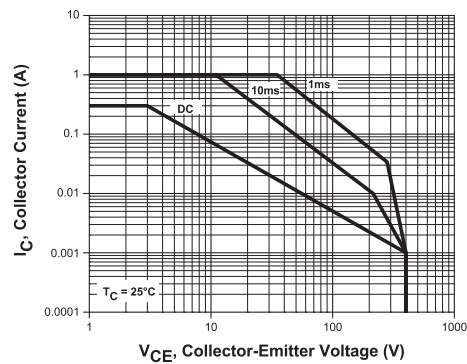
"ON" Voltage



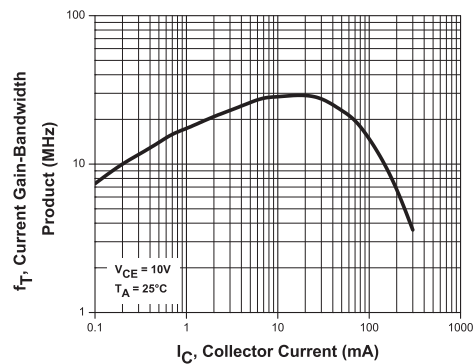
Capacitance



Safe Operating Area



Current Gain-Bandwidth Product



R5 (11-June 2013)

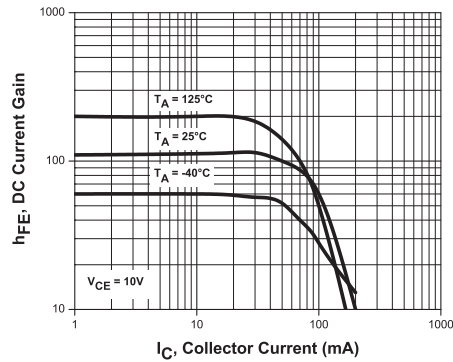
CJD340 NPN
CJD350 PNP

**SURFACE MOUNT SILICON
COMPLEMENTARY
POWER TRANSISTORS**

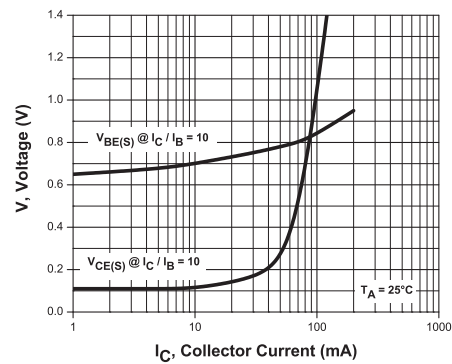


PNP TYPICAL ELECTRICAL CHARACTERISTICS

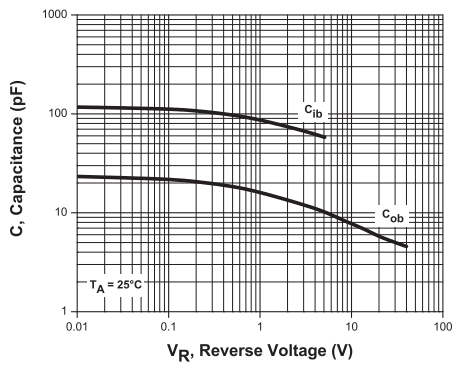
DC Current Gain



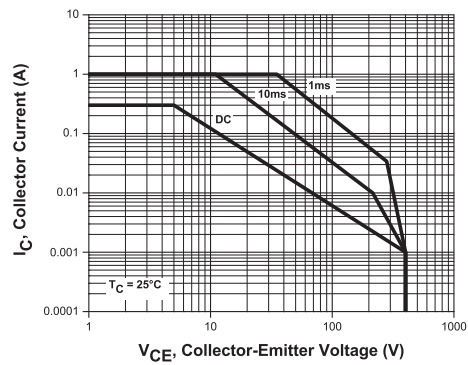
"ON" Voltage



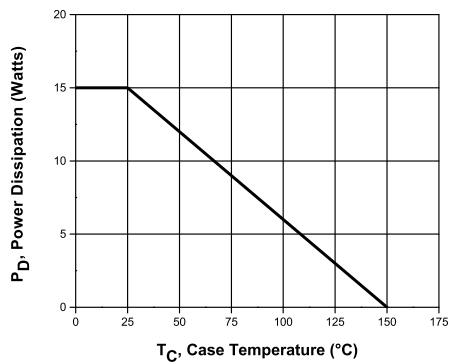
Capacitance



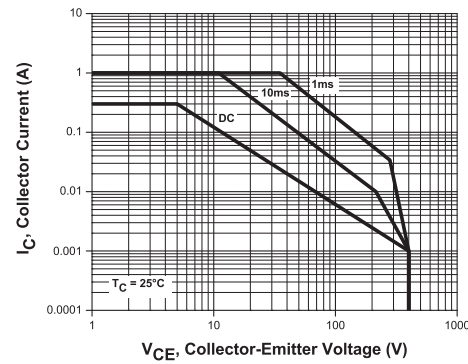
Safe Operating Area



Power Derating



Safe Operating Area



R5 (11-June 2013)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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