CJD44H11 NPN CJD45H11 PNP

SURFACE MOUNT SILICON COMPLEMENTARY POWER TRANSISTORS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CJD44H11 and CJD45H11 are complementary silicon power transistors manufactured in a surface mount package, and designed for switching and power amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)									
Collector-Emitter Voltage		SYMBOL VCEO		80		UNITS V			
Emitter-Base Voltage				5.0		V			
Continuous Collector Current		V _{EBO}		8.0		A			
		l _C		16		A			
Peak Collector Current		I _{CM}				W			
Power Dissipation		PD		20					
Power Dissipation (T _A =25°C)		P _D		1.75		W			
Operating and Storage Junction Temperature		T _J , T _{stg}		-65 to +150		°C			
Thermal Resistance		Θ JC		6.25		°C/W			
Thermal Resistance		$\Theta_{\sf JA}$		71.4		°C/W			
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)									
SYMBOL	TEST CONDITIONS	iicoo oti ici wiot	MIN	TYP	MAX	UNITS			
ICES	V _{CE} =80V				10	μΑ			
I _{EBO}	V _{EB} =5.0V				50	μΑ			
BV_{CEO}	I _C =30mA		80			V			
V _{CE(SAT)}	I _C =8.0A, I _B =400mA				1.0	V			
	I _C =8.0A, I _B =800mA				1.5	V			
h _{FE}	V _{CE} =1.0V, I _C =2.0A		60						
h _{FE}	V _{CE} =1.0V, I _C =4.0A		40						
f _T	V _{CE} =10V, I _C =500mA, f=20MHz (CJD44H11)			60		MHz			
f_{T}	V _{CE} =10V, I _C =500mA, f=20MHz (CJD45H11)			50		MHz			
C_{ob}	V _{CB} =10V, I _E =0, f=0.1MHz (CJD44	H11)		120		pF			
C_{ob}	V _{CB} =10V, I _E =0, f=0.1MHz (CJD45H11)			220		pF			
t _d + t _r	I _C =5.0A, I _{B1} =500mA (CJD44H11)			320		ns			
t _d + t _r	I _C =5.0A, I _{B1} =500mA (CJD45H11)			150		ns			
t_S	I _C =5.0A, I _{B1} =I _{B2} =500mA			450		ns			
t _f	I _C =5.0A, I _{B1} =I _{B2} =500mA (CJD44F	H11)		130		ns			

 I_C =5.0A, I_{B1} = I_{B2} =500mA (CJD45H11)

R3 (21-January 2013)

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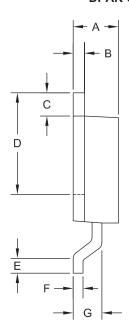
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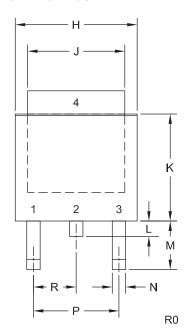
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DPAK CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING: FULL PART NUMBER

DIMENSIONS									
	INCHES		MILLIMETERS						
SYMBOL	MIN	MAX	MIN	MAX					
Α	0.083	0.108	2.10	2.75					
В	0.016	0.032	0.40	0.81					
С	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					
Н	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					
Р	0.1	80	4.60						
R	0.0	90	2.30						

DPAK (REV: R0)

R3 (21-January 2013)



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- 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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