



NPN SILICON PLASTIC HIGH VOLTAGE POWER TRANSISTORS

CJD3439

DPAK (TO-252) Plastic Package



3. EMITTER

Designed for use in Line Operated Equipment Requiring High f_T

ABSOLUTE MAXIMUM RATINGS						
DESCRIPTION	SYMBOL	VALUE				
Collector Emitter Voltage	V _{CEO}	350		V		
Collector Base Voltage	V _{CBO}	450		V		
Emitter Base Voltage	V _{EBO}	5.0		V		
Collector Current Continuous	I _C	0.3		Α		
Base Current	I _B	150			mA	
Total Power Dissipation at T _c =25°C	P _D	15			W	
Derate Above 25°C		0.12				W/ºC
Operating and Storage Junction Temperature Range	T_{j},T_{stg}	- 65 to +150			°C	
THERMAL CHARACTERISTICS						
Junction to Case	R _{th (j-c)}	8.33			°C/W	
ELECTRICAL CHARACTERISTICS (Tc=2	5⁰C unless sp	ecified otherwise)				
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Sustaining Voltage	V _{CEO(sus)}	I _C =5mA, I _B =0	350			V
Collector Cut Off Current	I _{CEO}	V _{CE} =300V, I _B =0			20	μΑ
Collector Cut Off Current	I _{CEX}	V _{CE} =450V, V _{EB(off)} =1.5V			500	μΑ
Collector Cut Off Current	I _{CBO}	V _{CB} =350V, I _E =0			20	μΑ
Emitter Cut Off Current	I _{EBO}	V_{BE} =5V, I _C =0			20	μΑ
DC Current Gain	h _{FE}	$I_{c}=2mA, V_{cE}=10V$	30		200	
Collector Emitter Saturation Voltage	V	I _C =20mA, V _{CE} =10V I _C =50mA, I _B =4mA	15		200 0.5	V
Base Emitter Saturation Voltage	V _{CE (sat)}	$I_{\rm C}=50$ mA, $I_{\rm B}=4$ mA			1.3	 V
Base Emitter On Voltage	V _{BE (sat)} V _{BE (on)}	$I_{\rm C}$ =50mA, $V_{\rm CE}$ =10V			0.8	V
•	♥ BE (on)				0.0	v
DYNAMIC CHARACTERISTICS DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Current Gain Bandwidth Product	f _T	I _c =10mA, V _{ce} =10V, f=5MHz	15	117	IVIAA	MHz
			15		10	
Output Capacitance	C _{0b}	V_{CB} =10V, I _E =0, f=1MHz			10	pF
Small Signal Current Gain	h _{fe}	I _C =5mA, V _{CE} =10V, f=1KHz	25			

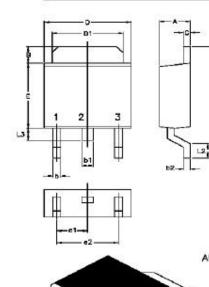
MARKING	CDIL
	CJD3439
	XY MX
XY= Date Code	

Downloaded from Elcodis.com electronic components distributor

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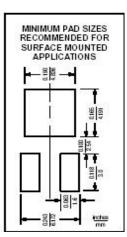
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DPAK PACKAGE OUTLINE DIMENSIONS



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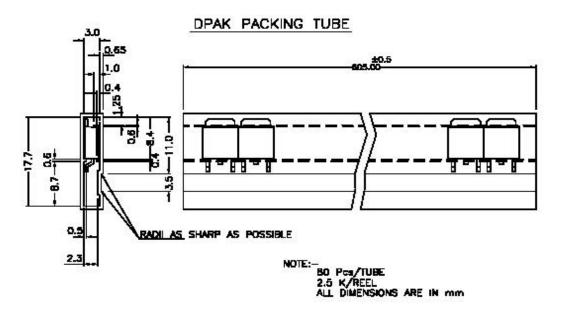
DIM	MIN.	MAX	
A	2.20	2.40	
в	1.30	1.50	
Þ	0.55	0.65	
ь1	0.75	0.85	
b2	0.46	0.56	
С	0.46	0.56	
D	6.40	6.60	
D1	5.20	5.40	
E	5.40	5.60	
e1	2.25	2.35	
e2	4.50 4.7		
L1	9.25 9.7		
LZ	0.5	-	
13	0.90	1.10	





PIN CONFIGURATION

- 1. BASE
- 2. COLLECTOR
- 3. EMITTER

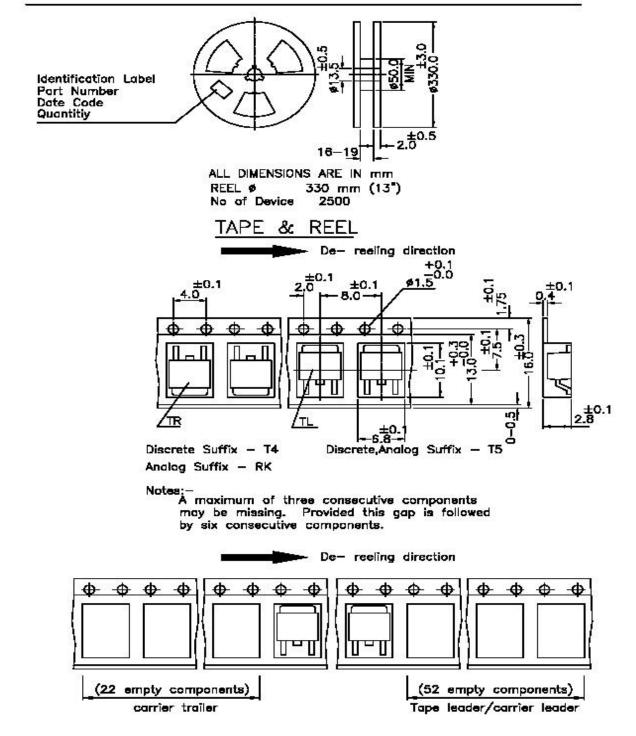


CJD3439Rev300606E

Continental Device India Limited

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DPAK TAPE & REEL SPECIFICATION



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Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Data Sheet