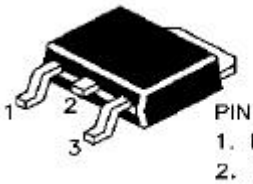
Continental Device India Limited
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN SILICON PLASTIC HIGH VOLTAGE POWER TRANSISTORS

CJD3439

DPAK (TO-252)
Plastic Package



PIN CONFIGURATION
1. BASE
2. COLLECTOR
3. EMITTER

Designed for use in Line Operated Equipment Requiring High f_T

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
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	A
Base Current	I_B	150	mA
Total Power Dissipation at T_c=25ºC Derate Above 25ºC	P_D	15 0.12	W W/ºC
Operating and Storage Junction Temperature Range	T_j, T_{stg}	- 65 to +150	ºC

THERMAL CHARACTERISTICS

Junction to Case	$R_{th\ (j\text{-}c)}$	8.33	ºC/W

ELECTRICAL CHARACTERISTICS (T_c=25ºC unless specified 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	µA
Collector Cut Off Current	I_{CEX}	V_{CE}=450V, $V_{EB(off)}$=1.5V			500	µA
Collector Cut Off Current	I_{CBO}	V_{CB}=350V, I_E=0			20	µA
Emitter Cut Off Current	I_{EBO}	V_{BE}=5V, I_C=0			20	µA
DC Current Gain	h_{FE}	I_C=2mA, V_{CE}=10V I_C=20mA, V_{CE}=10V	30 15		 200	
Collector Emitter Saturation Voltage	$V_{CE\ (sat)}$	I_C=50mA, I_B=4mA			0.5	V
Base Emitter Saturation Voltage	$V_{BE\ (sat)}$	I_C=50mA, I_B=4mA			1.3	V
Base Emitter On Voltage	$V_{BE\ (on)}$	I_C=50mA, V_{CE}=10V			0.8	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			MHz
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	

DPAK (TO-252)
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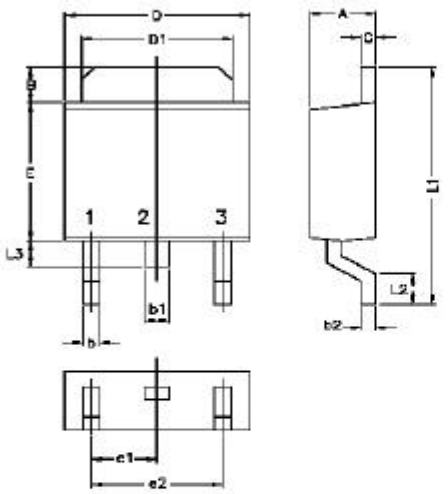
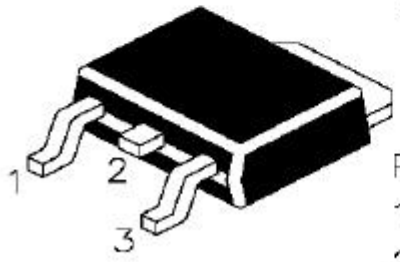
DPAK PACKAGE OUTLINE DIMENSIONS



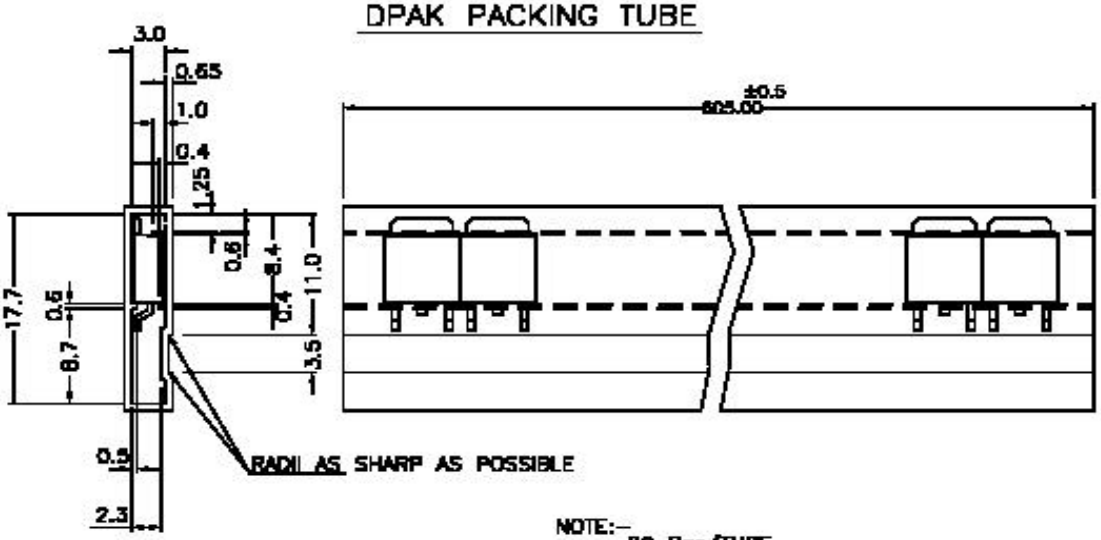
DIM	MIN.	MAX.
A	2.20	2.40
B	1.30	1.50
b	0.55	0.65
b1	0.75	0.85
b2	0.46	0.56
C	0.46	0.56
D	6.40	6.60
D1	5.20	5.40
E	5.40	5.60
e1	2.25	2.35
e2	4.50	4.70
L1	9.25	9.75
L2	0.5	–
L3	0.90	1.10

ALL DIMENSIONS ARE IN mm



PIN CONFIGURATION
1. BASE
2. COLLECTOR
3. EMITTER

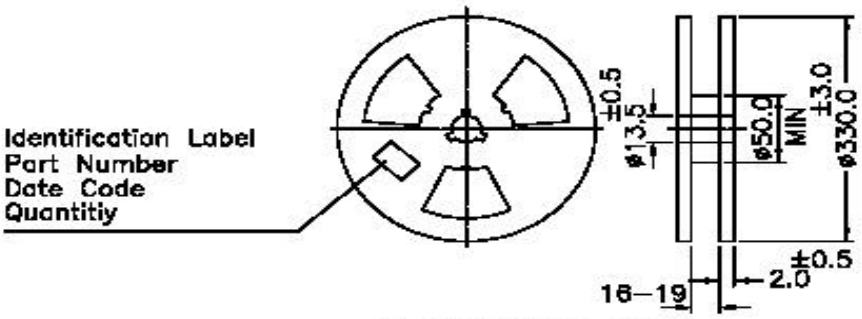
DPAK PACKING TUBE



NOTE:–
80 Pcs/TUBE
2.5 K/REEL
ALL DIMENSIONS ARE IN mm

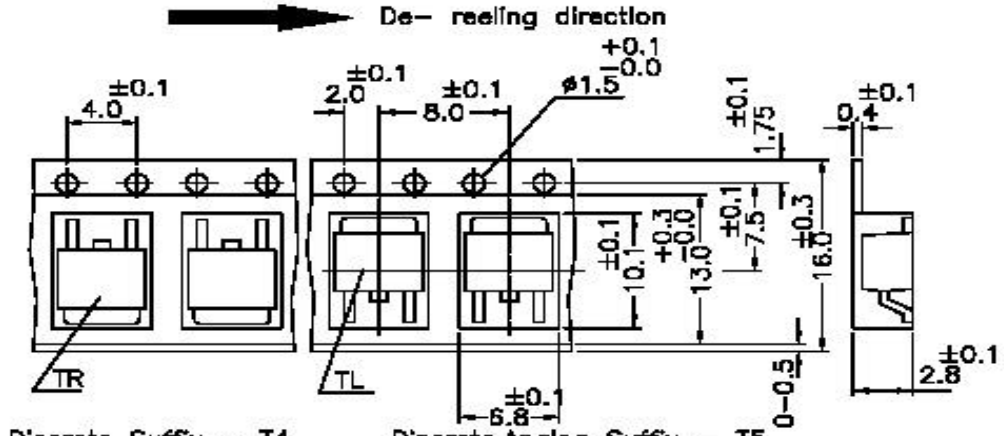
CJD3439Rev300606E

DPAK TAPE & REEL SPECIFICATION



ALL DIMENSIONS ARE IN mm
REEL ø 330 mm (13")
No of Device 2500

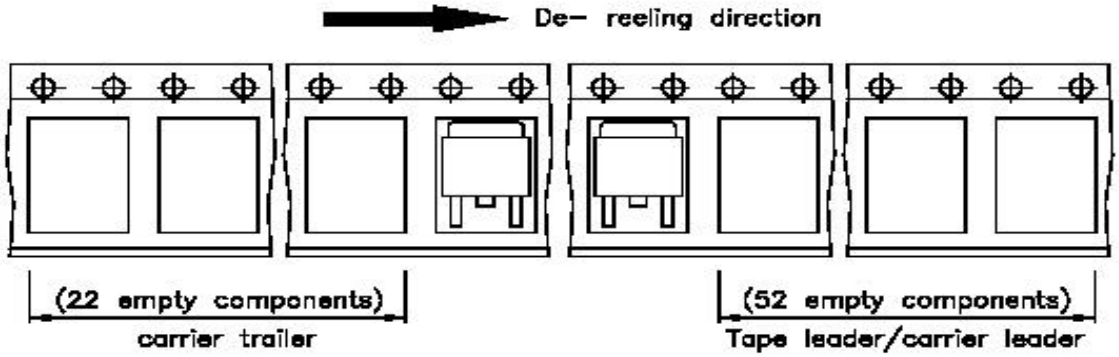
TAPE & REEL



Discrete Suffix – T4
Analog Suffix – RK

Discrete,Analog Suffix – T5

Notes:–
A maximum of three consecutive components may be missing. Provided this gap is followed by six consecutive components.



CJD3439Rev300606E

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

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