



Continental Device India Limited

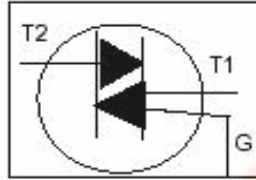
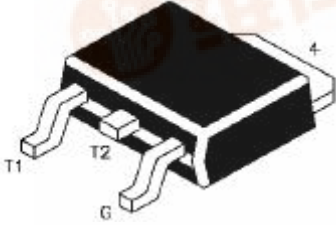
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



TRIAC

CJD137D

**DPAK (TO-252)
Plastic Package**



For use Motor, Light Dimmer, Air Con, Electric Switch Applications

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Off State Voltage	$*V_{DRM}$	400	V
RMS on State Current	$I_T (RMS)$	8.0	A
Non Repetitive Peak on State Current	I_{TSM}	55	A
Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	- 40 to +125	°C
Average Gate Power	$P_G (AV)$	0.5	W
Peak Gate Power	P_{GM}	5.0	W

ELECTRICAL CHARACTERISTICS ($T_j=25^\circ\text{C}$ unless specified otherwise)

PARAMETER	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Off State Leakage Current	I_{DRM}	$V_D=400V$		100	μA
On State Voltage	V_{TM}	$I_T=5A, I_G=35mA$		1.65	V
Holding Current	I_H	$V_D=12V, I_G=35mA$		20	mA
Gate Trigger Current	I_{GT}	$V_D=12V, R_L=100\Omega$ T2+ G+ T2+ G- T2- G- 400E 400F	15	35	mA
				35	mA
				35	mA
				15	mA
				35	mA
Gate Trigger Voltage	V_{GT}	$V_D=12V, R_L=100\Omega$ T2+ G+ T2+ G- T2- G-		1.5	V
				1.5	V
				1.5	V
				1.5	V

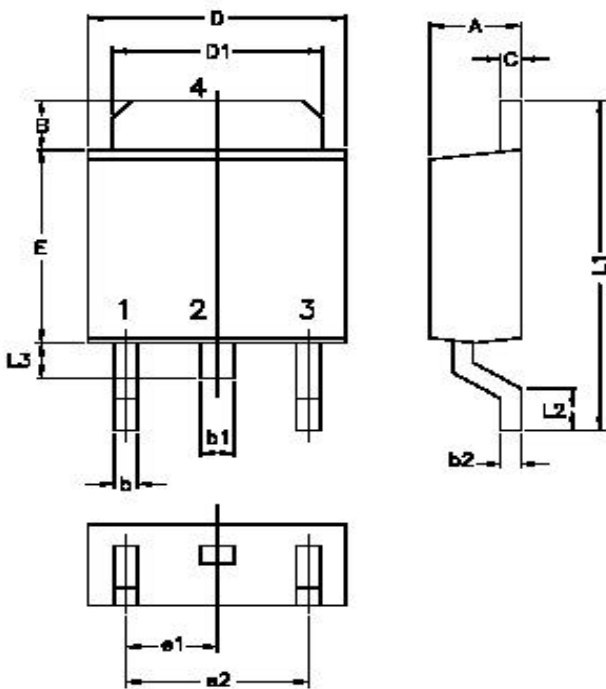
MARKING	CDIL CJD137D XY MX	CDIL CJD137DE XY MX	CDIL CJD137DF XY MX
XY= Date Code			

CJD137DRev120606E

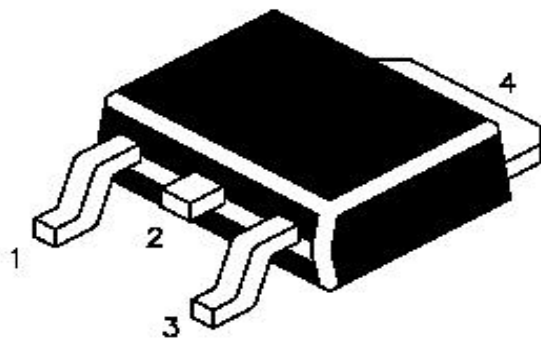


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DIM	MIN.	MAX.
A	2.20	2.40
B	1.30	1.50
b	0.55	0.65
b1	0.75	0.85
b2	0.46	0.58
C	0.46	0.58
D	6.40	6.60
D1	5.20	5.40
E	5.40	5.60
e1	2.25	2.35
e2	4.50	4.70
L1	9.25	9.75
L2	0.5	—
L3	0.90	1.10



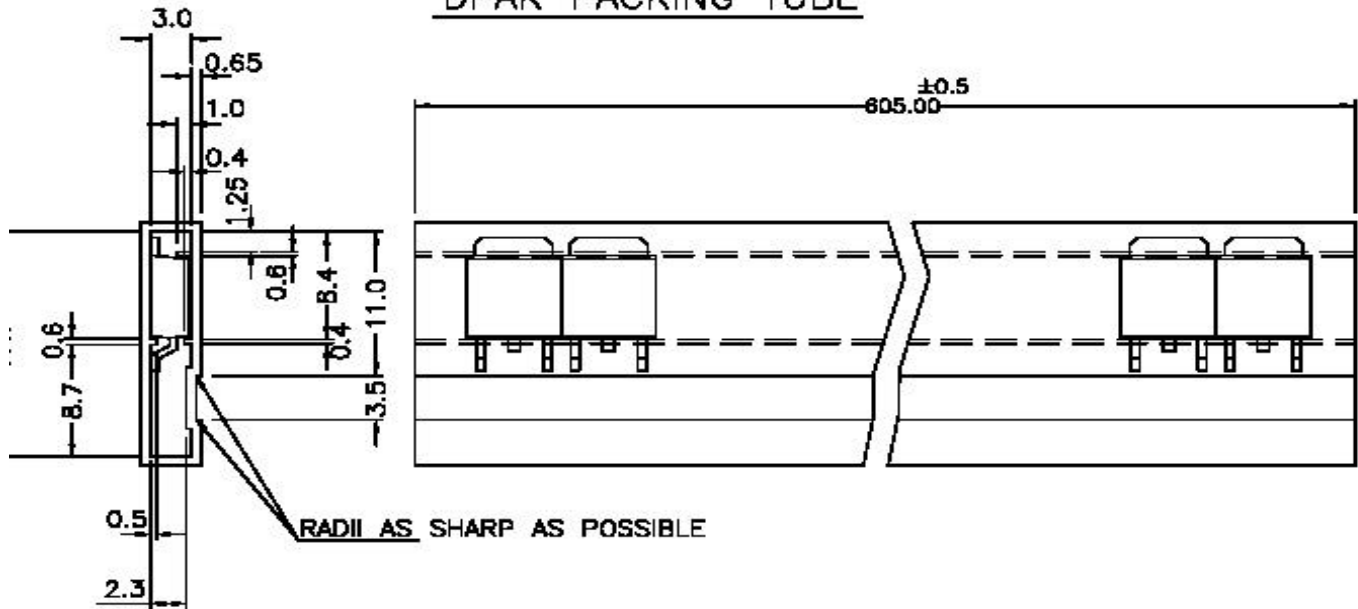
PIN CONFIGURATION

1. T1 MAIN TERMINAL 1
2. T2 MAIN TERMINAL 2
3. G GATE
4. FIN (T2)

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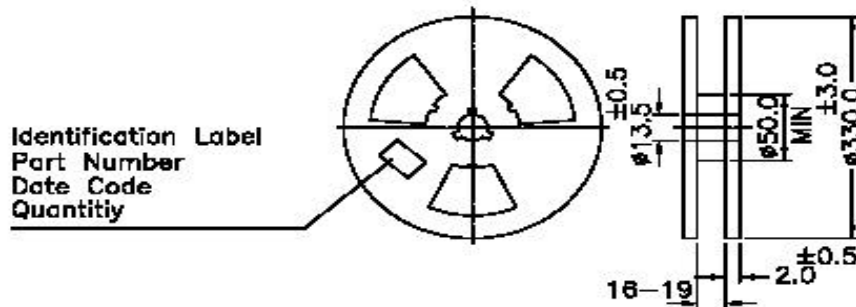
DPAK (TO-252)
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DPAK PACKING TUBE



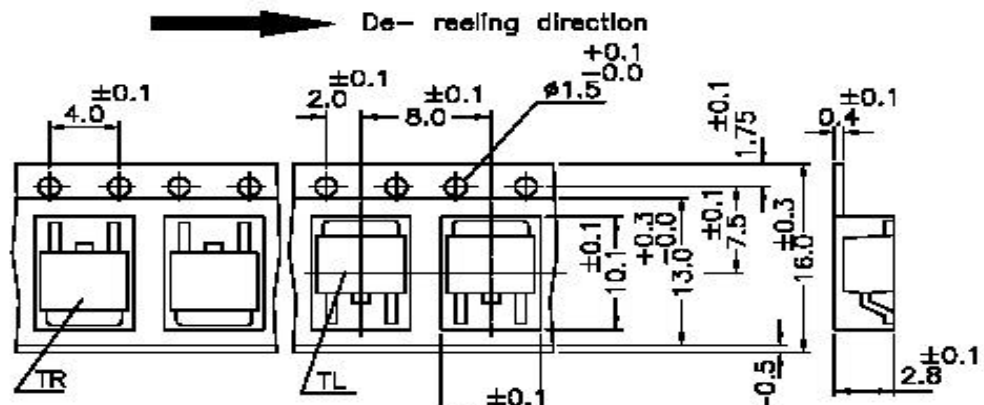
NOTE:—
80 Pcs/TUBE
ALL DIMENSIONS ARE IN mm

DPAK TAPE & REEL SPECIFICATION



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

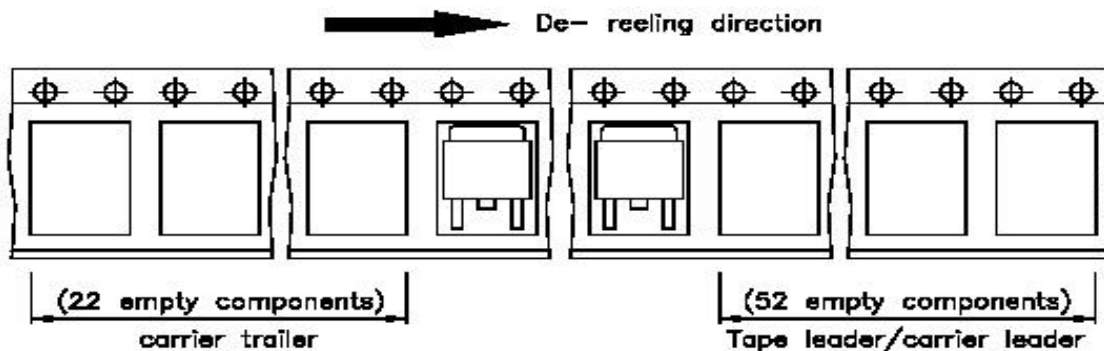
TAPE & REEL



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.



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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