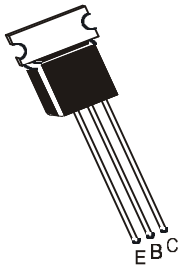
Continental Device India Limited

An ISO/TS16949 and ISO 9001 Certified Company

NPN SILICON PLANAR TRANSISTOR

2N6719



TO-237
Plastic Package

Designed for Applilcation as a Video Output to Drive Color CRT

ABSOLUTE MAXIMUM RATINGS(Ta=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V_{CBO}	300	V
Collector -Emitter Voltage	V_{CEO}	300	V
Emitter Base Voltage	V_{EBO}	7.0	V
Collector Current Continuous	I_C	0.5	A
Power Dissipation @ Ta=25ºC	P_D	1.0	W
Power Dissipation @ Tc=25ºC	P_D	2.0	W
Operating and Storage Junction Temperature Range	T_j, T_{stg}	-65 to +150	ºC
THERMAL RESISTANCE			
Junction to ambient	$R_{th(j-a)}$	125	ºC/W
Junction to case	$R_{th(j-c)}$	62.5	ºC/W

ELECTRICAL CHARACTERISTICS (Ta=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter Voltage	V_{CEO}	I_C=1mA, I_B=0	300			V
Collector -Base Voltage	V_{CBO}	I_C=100µA, I_E=0	300			V
Emitter Base Voltage	V_{EBO}	I_E=1mA, I_C =0	7			V
Collector Cut off Current	I_{CBO}	V_{CB}=200V, I_E=0			100	nA
Emitter Cut off Current	I_{EBO}	V_{EB}=6V, I_C=0			100	nA
DC Current Gain	h_{FE}	I_C=1mA,V_{CE}=10V	25			
		I_C=10mA,V_{CE}=10V	40			
		I_C=30mA,V_{CE}=10V	40		200	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=30mA,I_B=3mA			0.75	V
Base Emitter (Sat) Voltage	$V_{BE\ (sat)}$	I_C=20mA,I_B=2mA			1.0	V
Base Emitter (on) Voltage	$V_{BE\ (on)}$	I_C =30mA, V_{CE}=10V			0.85	V
DYNAMICS CHARACTERISTICS						
Current Gain Bandwidth Product	f_T	V_{CE}=10V, I_C=15mA,	30		300	MHz
Collector Base Capacitance	C_{cb}	V_{CB}=20V, I_C=0, f=1MHz			3.5	pF
Small Signal Current Gain	I hfe I	I_C=15mA, V_{CE}=100V,	2.5			
		f=20MHz				

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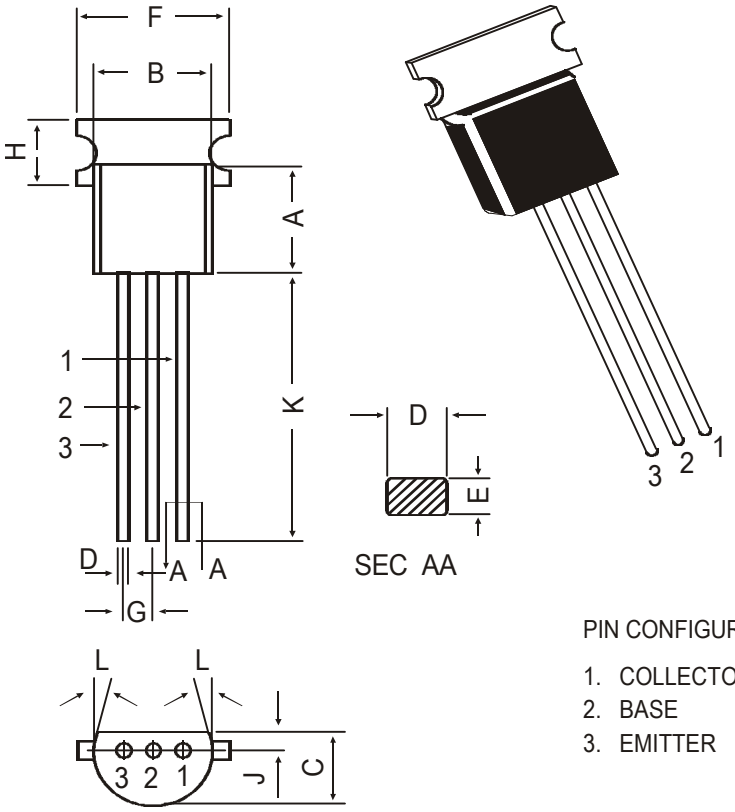

All diminsions in mm.

DIM	MIN.	MAX.
A	4.32	5.33
B	4.45	5.20
C	3.18	4.19
D	0.41	0.55
E	0.35	0.50
F	—	5.40
G	1.14	1.40
H	—	2.54
K	12.70	—
L	5 DEG	
J	1.14	1.53

PIN CONFIGURATION

1. COLLECTOR
2. BASE
3. EMITTER

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	**Net Weight/Qty**	**Size**	**Qty**	**Size**	**Qty**	**Gr Wt**
TO-237 Bulk	**1K/polybag**	**240 gm/1K pcs**	**3" x 7.5" x 7.5"**	**5K**	**17" x 15" x 13.5"**	**80K**	**26.2 kgs**
TO-237 T&A	**2K/ammo box**	**725 gm/2K pcs**	**12.5" x 8" x 1.8"**	**2K**	**17" x 15" x 13.5"**	**32K**	**13.8 kgs**

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete 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 Discrete 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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