

2N3763



PNP SILICON PLANAR TRANSISTOR



TO-39 Metal Can Package

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT		
Collector Base Voltage	V _{CBO}	60	V		
Collector Emitter Voltage	V _{CEO}	60	V		
Emitter Base Voltage	V _{EBO}	5	V		
Collector Current	f	1.5	Α		
Power Dissipation at Ta=25°C Derate	P _τ	1.0	W		
Linearly at T 25°C		5.71	mW/°C		
Operating and Storage Junction Temperature Range	T_{op},T_{stg}	- 55 to +200	°C		
Thermal Resistance Junction to Case	Rth (j-c)	60	°C/W		

ELECTRICAL CHARACTERISTICS (T_a=25°C unless specified otherwise)

\a								
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT			
OFF CHARACTERISTICS								
Collector Emitter Breakdown Voltage	V _{(BR)CEO}	I _c = 10mA	60		V			
Collector Base Cut Off Current	СВО	V _{CE} = 30V		100	nA			
		V _{CE} = 60V		10	uA			
Emitter Base Cut Off Current	I _{EBO} -	V_{EB} =2 V		200	nA			
		V _{EB} =5V		10	uA			
Collector Emitter Cut Off Current	I _{CEX}	$V_{CE} = 30V, V_{EB} = 2.0V$		100	nA			
ON OUADACTEDICTION	•			•	,			

ON CHARACTERISTICS

DC Gain		I _c =10mA, V _{cE} =1.0V	35		
	hFE	I _c =150mA, V _{ce} =1.0V	40		
		I _c =500mA, V _{ce} =1.0V	40	140	
		I _C =1.0A, V _{CE} =1.5V	20	80	
		I _c =1.5A, V _{ce} =5V	20		
Collector Emitter Saturation Voltage	V _{CE (sat)}	le=10mA, le=1mA		0.1	V
		l _c =150mA, l _B =15mA		0.22	V
		l _c =500mA, l _B =50mA		0.5	V
		I _c =1.0A, I _B =100mA		0.9	V
Base Emitter Saturation Voltage	.,	l=10mA, l₃=1mA		0.8	V
		l _c =150mA, l _B =15mA		1.0	V
	V _{BE (sat)}	l _c =500mA, l _B =50mA		1.2	V
		I _c =1.0A, I _B =100mA	0.9	1.4	V

Pulse Test : Pulse width = 300us, Duty Cycle </= 2.0%

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Continental Device India Limited

An ISO/TS 16949 and ISO 9001 Certified Company PNP SILICON PLANAR TRANSISTOR

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DYNAMIC CHARACTERISTICS

DESCRIPTION SYMBOL TEST CONDITION		TEST CONDITION	MIN	MAX	UNIT
Output Capacitance	C _{obo}	V_{CB} =10V, L =0, 100KHz < f < 1.0MHz		25	pF
Input Capacitance	C _{ibo}	V_{BE} =0.5V, I_{C} =0, 100KHz < f < 1.0MHz		80	pF

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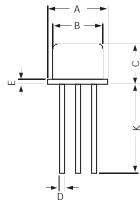




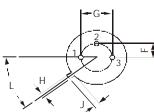
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	DIM	MIN	MAX
	Α	8.50	9.39
	В	7.74	8.50
	С	6.09	6.60
	D	0.40	0.53
_	Ε	-	0.88
All dimensions are in mm	F	2.41	2.66
iii	G	4.82	5.33
ns a	Н	0.71	0.86
nsio	J	0.73	1.02
ime	K	12.70	_
₽ B	L	42 DEG	48 DEG





PIN CONFIGURATION
1. EMITTER
2. BASE
3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20K	17" x 15" x 13.5"	32K	40 kgs

- 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).

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Customer Notes

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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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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