

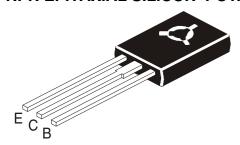
Continental Device India Limited

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





NPN EPITAXIAL SILICON POWER TRANSISTOR



CDL6718

TO126 Plastic Package

For Lead Free Parts, Device Part # will be Prefixed with "T"

General Purpose Medium Power Amplifier and Switching Applications.

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V _{CBO}	100	V	
Collector Emitter Voltage	V _{CEO}	100	V	
Emitter Base Voltage	V_{EBO}	5.0	V	
Collector Current	I _C	1.0	Α	
Total Power Dissipation at T _a =25°C	P _D	1.6	W	
Junction Temperature	T_j	150	ōC	
Storage Temperature Range	T _{stg}	- 55 to 150	ōC	

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT	
Collector Base Voltage	V_{CBO}	$I_C=100\mu A,\ I_E=0$	100			V	
Collector Emitter Voltage	V_{CEO}	$I_C=1$ mA, $I_B=0$	100			V	
Emitter Base Voltage	V_{EBO}	$I_{E}=10\mu A, I_{C}=0$	5.0			V	
Collector Cut Off Current	I _{CBO}	$V_{CB}=80V_{,}I_{E}=0$			100	nA	
Collector Emitter Saturation Voltage	*V _{CE (sat)}	$I_C=350$ mA, $I_B=35$ mA			0.35	V	
DC Current Gain	*h _{FE}	$I_C=50$ mA, $V_{CE}=1$ V	80				
		$I_C=250$ mA, $V_{CE}=1$ V	50		250		
		$I_C=500$ mA, $V_{CE}=1$ V	20				
Transition frequency	f _T	$I_C=50$ mA, $V_{CE}=10$ V, $f=100$ MHz	50			MHz	
Output Capacitance	C_{ob}	V _{CB} =10V, f=1MHz			20	pF	

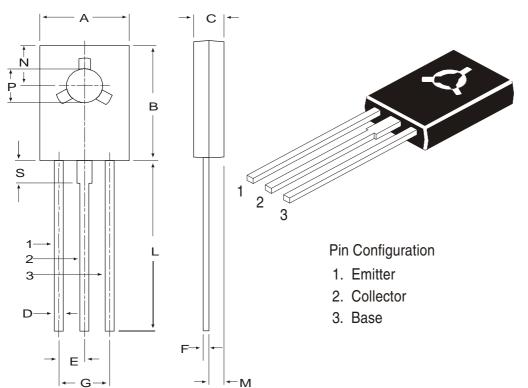
CDL6718Rev211005E

*Pulse Test: Pulse Width≤380µs, Duty Cycle ≤2%

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TO-126 (SOT-32) Plastic Package



DIM	MIN	MAX		
Α	7.4	7.8		
В	10.5	10.8		
С	2.4	2.7		
D	0.7	0.9		
E	2.25 TYP.			
F	0.49	0.75		
G	4.5 TYP.			
L	15.7 TYP.			
М	1.27 TYP.			
N	3.75 TYP.			
Р	3.0	3.2		
S	2.5 TYP.			

All diminsions in mm.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 gm/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 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 CDL6718

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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 on the CDIL Web Site/CD is 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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