MANAGEMENT SERVICE



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

NPN SILICON HIGH VOLTAGE TRANSISTORS

BF257, BF 258, BF259



TO-39 Metal Can Package

INTENDED FOR VIDEO OUTPUT STAGES IN BLACK AND WHITE AND IN COLOUR TELEVISION REVEIVERS.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

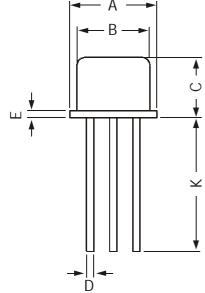
DESCRIPTION	SYMBOL	BF257	BF258	BF259	UNITS
Collector Emitter Voltage	V_{CEO}	160	250	300	V
Collector Base Voltage	V_{CBO}	160	250	300	V
mitter Base Voltage V _{EBO}		<>			V
Collector Current Continuous	I _C	<	100	>	mA
Pea	ak I _{CM}	<	300	>	mA
Total Power Dissipation @ Ta=25°C P _D		<>			W
Derate Above 25°C		<	6.67	>	mW/ºC
Total Power Dissipation@ Tc=25°C	P_{D}	<	7	>	W
Derate Above 25°C		<	46.67-	>	mW/ºC
Operating And Storage Junction	T_{j},T_{stg}	<	-65 to +1	75>	٥С
Temperature Range					
THERMAL RESISTANCE					
Junction to Ambient	$R_{th(j-a)}$	<	150	>	°C/W
Junction to Case	$R_{th(i-c)}$	<	21.43	>	°C/W

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

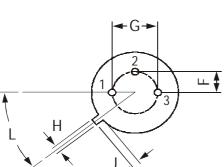
DESCRIPTION	SYMBOL	TEST CONDITION	BF257	BF258	BF259	UNITS	
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C=10$ mA, $I_B=0$	>160	>250	>300	V	
Collector Base Breakdown Voltage	BV_CBO	$I_C = 100 \mu A, I_E = 0$	>160	>250	>300	V	
Emitter Base Breakdown Voltage	BV_EBO	$I_E=100\mu A, Ic=0$	>5 >5		5	V	
Collector Cut off Current	I_{CBO}	V_{CB} =100V, I_{E} =0	< 0.05			μΑ	
		V_{CB} =200V, I_{E} =0		< 0.05		μΑ	
		V_{CB} =250V, I_{E} =0			< 0.05	μΑ	
DC Current Gain	h_{FE}	$I_C=30$ mA, $V_{CE}=10$ V	ALL	>25			
Collector Emitter Saturation Voltage	$V_{\text{CE}(\text{Sat})}$	$I_C=30$ mA, $I_B=6$ mA		<1		V	
DYNAMIC CHARACTERISTICS							
Transition Frequency	f_T	$I_C=15$ mA, $V_{CE}=10$ V					
TYP		f=100MHz		75		MHz	
Collector Base Capacitance	C_cb	I _E =0, V _{CB} =30V,f=1MHz					
TYP				2.5		pF	
*Pulse Test: Pulse Width ≤300μs, Duty Cycle ≤2%							

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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		
F	2.41	2.66		
G	4.82	5.33		
Н	0.71	0.86		
J	0.73	1.02		
K	12.70	_		
L	42 DEG	48 DEG		





All dimensions are in mm

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

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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 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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