

3CD075,3CD100,3CD150

PNP Silicon Low Frequency High Power Transistor



Features:

1. Heavy output current.Small saturation voltage drop. Good temperature stability.
2. Implementation of standards: GJB33 A-97, QZJ840611A, QZJ840611.
3. Use for power amplify, Low-speed switch, power adjustment.
4. Quality Class: JP, JT, JCT, GS, G, G+.

TECHNICAL DATA:

($T_a = 25^\circ\text{C}$)

Parameter name	Symbols	Unit	Specifications							
			3CD075		3CD100			3CD150		
			A	B	C	D	E	F	G	H
Collector-Emitter Voltage	V_{CEO}	V	30	50	80	110	150	200	250	300
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	30	50	80	110	150	200	250	300
			3CD075: $I_C=5\text{mA}$		3CD100: $I_C=5\text{mA}$			3CD150: $I_C=5\text{mA}$		
Emitter-Base Voltage	V_{EBO}	V	4		4			4		
Max. Collector Current	I_{CM}	A	7.5		10			15		
Max. Collector Dissipation	P_{CM}	W	75 ($T_c \leq 75^\circ\text{C}$)			100 ($T_c \leq 75^\circ\text{C}$)			150 ($T_c \leq 75^\circ\text{C}$)	
Junction Temperature	T_{jm}	$^\circ\text{C}$	175							
Storage Temperature	T_{stg}	$^\circ\text{C}$	-55~+175							
C-E Leakage Current	I_{CEO}	mA	3.0 ($V_{CE}=50\text{V}$)					4.0 ($V_{CE}=50\text{V}$)		
Collector- Emitter Saturation Voltage Drop	$V_{CE(sat)}$	V	1.5		2			2		
			(A~E: $I_C=4\text{A}$, $I_B=0.8\text{A}$; F~H: $I_C=2\text{A}$, $I_B=0.4\text{A}$)		(A~E: $I_C=5\text{A}$, $I_B=1\text{A}$; F~H: $I_C=2.5\text{A}$, $I_B=0.5\text{A}$)			(A~E: $I_C=7.5\text{A}$, $I_B=1.5\text{A}$; F~H: $I_C=4\text{A}$, $I_B=0.8\text{A}$)		
DC Current Gain	h_{FE}		Max.:180, Min.:7		Max.:180, Min.:7			Max.:180, Min.:7		
			(A~E: $V_{CE}=5\text{V}$, $I_C=4\text{A}$; F~H: $V_{CE}=5\text{V}$, $I_C=2\text{A}$)		(A~E: $V_{CE}=5\text{V}$, $I_C=5\text{A}$; F~H: $V_{CE}=5\text{V}$, $I_C=2.5\text{A}$)			(A~E: $V_{CE}=5\text{V}$, $I_C=7.5\text{A}$; F~H: $V_{CE}=5\text{V}$, $I_C=4\text{A}$)		
E-B Breakdown Voltage	$V_{(BR)EBO}$	V	≥ 4 ($I_E=5\text{mA}$)			≥ 4 ($I_E=7\text{mA}$)				

h_{FE} Colored:

Color	Brown	Red	Orange	Yellow	Green	Blue	Purple
h_{FE}	7~15	15~25	25~40	40~55	55~80	80~120	120~180

Outline and Dimensions: