

PNP SILICON DARLINGTONS POWER TRANSISTORS

They are silicon epitaxial base transistors mounted in TO-3PN. They are designed for audio output stages and general amplifier and switching applications. complementary is BDV65-A-B-C Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings		Value	Unit
V _{CEO}		BDV64	-60	
	Collector-Emitter Voltage	BDV64A	-80	.,
		BDV64B	-100	V
		BDV64C	-120	
		BDV64	-60	
V	Callacter Dage Voltage	BDV64A	-80	\ \ \ \
V _{CBO}	Collector-Base Voltage	BDV64B	-100	V
		BDV64C	-120	
		BDV64		
V	Freitter Dees Valtage	BDV64A	5.0	V
V _{EBO}	Emilier-base voltage	Emitter-Base Voltage BDV64B	-5.0	
		BDV64C		
		BDV64		
Ic	Collector Current	BDV64A	-12	А
IC	Collector Current	BDV64B	-12	
		BDV64C		
I _{CM}		BDV64		
	Collector Peak Current	BDV64A	-15	
'CM	Concetor reak ourrent	BDV64B	13	
		BDV64C		
		BDV64		
I _B	Base Current	BDV64A	-0.5	А
i.R	base Current	BDV64B		
		BDV64C		



ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings			Value	Unit
P _T		T _{mb} = 25° C	BDV64	125	
			BDV64A		
			BDV64B		
	Dower Dissipation		BDV64C		W
	Power Dissipation		BDV64	3.5	VV
		T _{mb} = 25° C	BDV64A		
			BDV64B		
			BDV64C		
T _J			BDV64		
	Junction Temperature		BDV64A	150	
	Junction remperature	BDV64B	130	°C	
			BDV64C		
Ts	Storage Temperature		BDV64		-65 to +150
			BDV64A		
			BDV64B		
			BDV64C		

THERMAL CHARACTERISTICS

Symbol	Ratings		Value	Unit
R _{thj-c}		BDV64		- °C/W
	Thermal Decistores Investigate Cons	BDV64A	4	
	Thermal Resistance, Junction to Case	BDV64B] '	
		BDV64C		
R _{thj-a}		BDV64	35.7	
	Thermal Decistance, Junction to Ambient	BDV64A		
	Thermal Resistance, Junction to Ambient	BDV64B		
		BDV64C		



ELECTRICAL CHARACTERISTICS

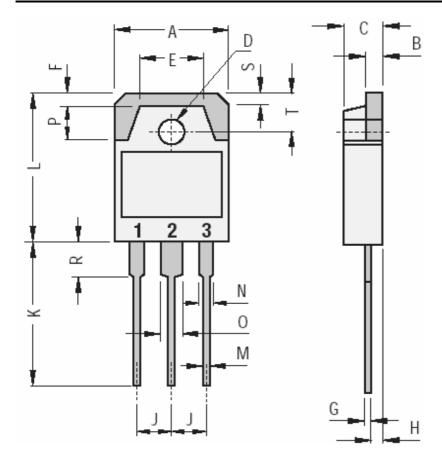
TC=25°C unless otherwise noted

Symbol	Ratings	Test Conditio	n(s)	Min	Тур	Max	Unit
I _{CEO}	Collector Cutoff Current	$V_{CE} = -30 \text{ V}, I_{B} = 0$	BDV64		-	-2	mA
		V _{CE} = -40 V, I _B = 0	BDV64A	1			
		$V_{CE} = -50 \text{ V}, I_{B} = 0$	BDV64B] -			
		V _{CE} = -60 V, I _B = 0	BDV64C				
	Facilities Contact Comment		BDV64		-	-5	mA
		\\\ - 5 \\ \ \ - 0	BDV64A] _			
I _{EBO}	Emitter Cutoff Current	$V_{BE} = -5 \text{ V}, I_{C} = 0$	BDV64B				
			BDV64C	1			
		V _{CB} = -60 V	BDV64				
		$I_{E}=0$ $V_{CB}=-80 \text{ V}$	BDV64A			-0.4	mA
		$T_{i}=25^{\circ}C$ $V_{CB}=-100 \text{ V}$	BDV64B	-	-		
	Collector Cutoff Current	V _{CB} = -120 V	BDV64C				
I _{CBO}		V _{CB} = -30 V	BDV64		-	-2	
		$I_{E}=0$ $V_{CB}=-40 \text{ V}$	BDV64A	1			
		T_{i} =150°C V_{CB} = -50 V	BDV64B	-			
		V _{CB} = -60 V	BDV64C				
			BDV64	-60	-	-	
V _{CEO}	Collector-Emitter Breakdown Voltage (*)	20 m A 0	BDV64A	-80	-		\ \ /
		I_{C} = -30 mA, I_{B} = 0	BDV64B	-100	-	-	V
			BDV64C	-120	-	-	
	DC Current Gain (*)		BDV64	1000	-	-	-
·			BDV64A				
h _{FE}		$V_{CE} = -4 \text{ V}, I_{C} = -5 \text{ A}$	BDV64B				
			BDV64C				
V _{CE(SAT)}			BDV64				
	Collector-Emitter saturation Voltage (*)		BDV64A] - 	-	-2	V
		I_{C} = -5 A, I_{B} = -20 mA	BDV64B				
			BDV64C				
V _{BE}			BDV64	-	-	-2,5	V
	Base-Emitter Voltage(*)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BDV64A				
		$V_{CE} = -4 \text{ V}, I_{C} = -5 \text{ A}$	BDV64B				
			BDV64C				

^(*) Pulse Width $\approx 300~\mu s,$ Duty Cycle \angle 1.5 %



MECHANICAL DATA CASE TO3PN Non Isolated Plastic Package



DIMENSIONS (mm)				
	Min. Max.			
Α	15.20	1600		
В	1.90	2.10		
С	4.60	5.00		
B C D E	3.10	3.30		
Е		9.60		
F		2.00		
G H J K L	0.35	0.55		
Н		1.40		
J	5.35	5.55		
K	20.00			
L	19.60	20.20		
	0.95	1.25		
Ν		2.00		
O P		3.00		
Р		4.00		
R		4.00		
S		1.80		
Т	4.80	5.20		
Pin 1		Base		
Pin 2	-	Collector		

Pin 1 :	Base
Pin 2 :	Collector
Pin 3 :	Emitter
Package	Collector

Revised August 2012

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