



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6294, 2N6296 series devices are complementary silicon Darlington power transistors, manufactured by the epitaxial base process, designed for high gain amplifier and medium speed switching applications.

MARKING: FULL PART NUMBER

MAXIMUM R	ATINGS: (T _C =25°C) e Voltage	SYMBOL V _{CBO}	2N6294 2N6296 60	2N6295 2N6297 80	
Collector-Emi	0	VCEO	60	80	V
Emitter-Base	•	VEBO		.0	V
	ollector Current	IC	4	.0	А
Peak Collecto	r Current	ICM	8	.0	А
Continuous Base Current		IB	80		mA
Power Dissipation		PD	50		W
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +200		°C
Thermal Resistance		ΘJC	3	.5	°C/W
ELECTRICAL SYMBOL ICEV ICEV ICEO IEBO BVCEO BVCEO VCE(SAT) VCE(SAT)	CHARACTERISTICS: $(T_C=25^{\circ}C \text{ u})$ TEST CONDITIONS $V_{CE}=Rated V_{CEO}, V_{EB}=1.5V$ $V_{CE}=Rated V_{CEO}, V_{EB}=1.5V, T_C$ $V_{CE}=\frac{1}{2}Rated V_{CEO}$ $V_{EB}=5.0V$ $I_C=50mA$, (2N6294, 2N6296) $I_C=50mA$, (2N6295, 2N6297) $I_C=2.0A$, $I_B=8.0mA$ $I_C=4.0A$, $I_B=40mA$	nless otherwise MIN	M. 0 5 0 2	AX 5 .0 .5 .0	UNITS mA mA mA V V V V V V
V _{BE} (SAT)	I _C =4.0A, I _B =40mA		4	.0	V
V _{BE(ON)}	V _{CE} =3.0V, I _C =2.0A		2	.8	V
h _{FE}	V _{CE} =3.0V, I _C =2.0A	750	18	3K	
hFE	V _{CE} =3.0V, I _C =4.0A	100			
h _{fe}	V _{CE} =3.0V, I _C =1.5A, f=1.0kHz	300			
fT	V _{CE} =3.0V, I _C =1.5A, f=1.0MHz	4.0			MHz
Cob	V_{CB} =10V, I _E =0, f=100kHz (NPN ty	rpes)	1:	20	pF
Cob	V_{CB} =10V, I _E =0, f=100kHz (PNP ty	pes)	20	00	pF

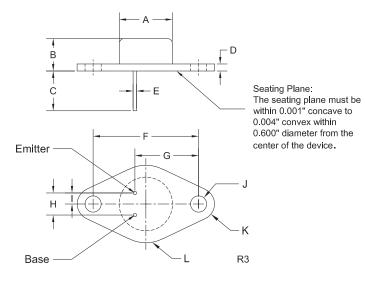
R2 (2-September 2014)



2N6294 2N6295 NPN 2N6296 2N6297 PNP

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS

TO-66 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
A (DIA)	0.470	0.500	11.94	12.70				
В	0.250	0.340	6.35	8.64				
С	0.360	-	9.14	-				
D	0.050	0.075	1.27	1.91				
E (DIA)	0.028	0.034	0.71	0.86				
F	0.956	0.964	24.28	24.48				
G	0.570	0.590	14.48	14.99				
Н	0.190	0.210	4.83	5.33				
	0.093	0.107	2.36	2.72				
J (DIA)	0.142	0.152	3.61	3.86				
K (RAD)	0.141		3.58					
L (RAD)	0.345		8.76					
TO-66 (REV:R3)								

MARKING: FULL PART NUMBER

www.centralsemi.com

R2 (2-September 2014)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- · Consolidated shipping options

· Custom bar coding for shipments

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

- · Custom product packing
- - · Special wafer diffusions
 - PbSn plating options
 - · Package details
 - · Application notes
 - · Application and design sample kits
 - · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's LIMITATIONS AND DAMAGES DISCLAIMER, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Darlington Transistors category:

Click to view products by Central Semiconductor manufacturer:

Other Similar products are found below :

 281287X
 SMMBT6427LT1G
 2N7371
 BDV64B
 JANTXV2N6287
 028710A
 SMMBTA64LT1G
 2N6350
 2SB1214-TL-E

 SMMBTA14LT1G
 SBSP52T1G
 NJVMJD117T4G
 Jantx2N6058
 2N6353
 LB1205-L-E
 500-00005
 2N6053
 NJVMJD112G
 Jan2N6350

 Jantx2N6352
 Jantx2N6350
 BULN2803LVS
 ULN2001N
 2SB1383
 2SB1560
 2SB852KT146B
 TIP112TU
 TIP122TU
 BCV27
 MMBTA13

 TP
 MMBTA14-TP
 MMSTA28T146
 BSP50H6327XTSA1
 KSH122TF
 NTE2557
 NJVNJD35N04T4G
 TIP115
 MPSA29-D26Z
 MJD127T4

 FJB102TM
 BCV26E6327HTSA1
 BCV46E6327HTSA1
 BCV47E6327HTSA1
 BSP61H6327XTSA1
 BU941ZPFI
 2SB1316TL
 2SD1980TL

 NTE2350
 NTE245
 NTE245
 NTE246
 MTE246
 MTE246
 MTE246