2N6282 2N6283 2N6284 NPN 2N6285 2N6286 2N6287 PNP

COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6282, 2N6285 series devices are complementary silicon monolithic Darlington transistors, manufactured by the epitaxial base process, designed for general purpose high current, high gain amplifier and switching applications.

MARKING: FULL PART NUMBER

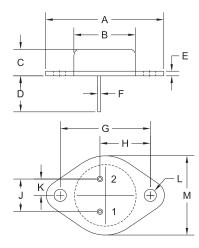
MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Peak Collector Current Continuous Base Current Power Dissipation Operating and Storage Junction Temperature Thermal Resistance		SYMBOL VCBO VCEO VEBO IC ICM IB PD TJ, Tstg ΘJC	2N6282 2N6285 60 60	2N6283 2N6286 80 80 5.0 20 40 0.5 160 -65 to +200 1.09	2N6284 2N6287 100 100	UNITS V V A A W °C °C/W
SYMBOL ICEX ICEX ICEO IEBO BVCEO BVCEO VCE(SAT) VCE(SAT) VBE(ON) hFE hFE hfe	CHARACTERISTICS: (T _C =25°C un TEST CONDITIONS V _{CE} =Rated V _{CEO} , V _{EB} =1.5V V _{CE} =Rated V _{CEO} , V _{EB} =1.5V, T _C = V _{CE} =½Rated V _{CEO} V _{EB} =5.0V I _C =100mA, (2N6282, 2N6285) I _C =100mA, (2N6283, 2N6286) I _C =100mA, (2N6284, 2N6287) I _C =104, I _B =40mA I _C =20A, I _B =200mA V _{CE} =3.0V, I _C =10A V _{CE} =3.0V, I _C =10A V _{CE} =3.0V, I _C =10A V _{CE} =3.0V, I _C =10A, f=1.0kHz V _{CE} =3.0V, I _C =10A, f=1.0mHz V _{CB} =10V, I _C =10A, f=1.0mHz	MIN 150°C 60 80 100 750 100 300 4.0	e noted)	MAX 0.5 5.0 1.0 2.0 2.0 3.0 4.0 2.8 18K		UNITS mA mA mA V V V V V V MHz pF
C _{ob}	V_{CB} =10V, I_E =0, f=100kHz (PNP typ	es)		600		pF

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TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	1.516	1.573	38.50	39.96				
B (DIA)	0.748	0.875	19.00	22.23				
С	0.250	0.450	6.35	11.43				
D	0.433	0.516	11.00	13.10				
Е	0.054	0.065	1.38	1.65				
F	0.035	0.045	0.90	1.15				
G	1,177	1.197	29.90	30.40				
Н	0.650	0.681	16.50	17.30				
J	0.420	0.440	10.67	11.18				
K	0.205	0.225	5.21	5.72				
L (DIA)	0.151	0.172	3.84	4.36				
М	0.984	1.050	25.00	26.67				

TO-3 (REV: R2)

R2

LEAD CODE:

- 1) Base

2) Emitter Case) Collector

MARKING:

FULL PART NUMBER

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
- · Custom product packing

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

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

CONTACT US

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