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DESCRIPTION:

The CENTRAL SEMICONDUCTOR PMD16K, PMD17K series types are complementary silicon Darlington power transistors, manufactured by the epitaxial base process, mounted in a hermetically sealed metal package, and designed for power switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage Collector-Emitter Voltage	SYMBOL V _{CBO} V _{CEO}	PMD16K60 PMD17K60 60 60	PMD16K80 PMD17K80 80 80	PMD16K100 PMD17K100 100 100	UNITS V V
Emitter-Base Voltage	VEBO		5.0		V
Continuous Collector Current	IC		20		А
Peak Collector Current	ICM		40		А
Continuous Base Current	Ι _Β		500		mA
Power Dissipation	PD		200		W
Operating and Storage Junction Temperature	TJ, Tstg		-65 to +200		°C
Thermal Resistance	ΘJC		0.875		°C/W

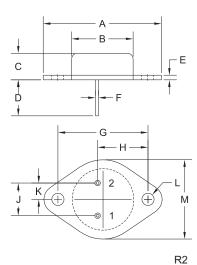
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS			
ICER	V _{CE} =Rated V _{CEO} , R _{BE} =1.0kΩ		1.0	mA			
ICER	V_{CE} =Rated V_{CEO} , R_{BE} =1.0k Ω , T_{C} =150	°C	5.0	mA			
IEBO	V _{EB} =5.0V		2.0	mA			
BVCEO	I _C =100mA (PMD16K60, 17K60)	60		V			
BVCEO	I _C =100mA (PMD16K80, 17K80)	80		V			
BVCEO	I _C =100mA (PMD16K100, 17K100)	100		V			
V _{CE} (SAT)	I _C =10A, I _B =40mA		2.0	V			
V _{BE(SAT)}	I _C =10A, I _B =40mA		2.8	V			
V _{BE(ON)}	V _{CE} =3.0V, I _C =10A		2.8	V			
h _{FE}	V _{CE} =3.0V, I _C =10A (PMD16K series)	1.0K	20K				
h _{FE}	V _{CE} =3.0V, I _C =10A (PMD17K series)	800	20K				
h _{fe}	V _{CE} =3.0V, I _C =7.0A, f=1.0kHz	300					
fT	V _{CE} =3.0V, I _C =7.0A, f=1.0MHz	4.0		MHz			
Cob	V _{CB} =10V, I _E =0, f=1.0MHz		400	pF			

R1 (26-November 2012)





COMPLEMENTARY SILICON DARLINGTON POWER TRANSISTORS



TO-3 CASE - MECHANICAL OUTLINE

DIMENSIONS INCHES MILLIMETERS SYMBOL MIN MAX MIN MAX 1.516 А 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 29.90 30.40 G 1.197 1.177 Н 0.650 0.681 16.50 17.30 0.420 0.440 10.67 11.18 .1 Κ 0.205 0.225 5.21 5.72 L (DIA) 0.151 0.172 3.84 4.36 Μ 0.984 1.050 25.00 26.67

TO-3 (REV: R2)

LEAD CODE: 1) Base 2) Emitter Case) Collector

> MARKING: FULL PART NUMBER

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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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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