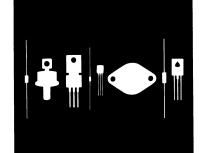


145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 Fax: (631) 435-1824 www.centralsemi.com

MAYIMUM PATINGS (To=25°C)



PMD10K SERIES (NPN) PMD11K SERIES (PNP)

SILICON POWER
DARLINGTON TRANSISTORS

JEDEC TO-3 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR PMD10K/PMD11K series types are silicon NPN/PNP darlington power transistors manufactured by the epitaxial-base process, mounted in a hermetically sealed metal package, and designed for power switching applications. These devices are designed to be electrical/mechanical equivalents to Lambda part numbers.

MAXIMUM RATINGS (T _C =	25°C)	SYMBOL	PMD10K60 PMD11K60	PMD10K80 PMD11K80	PMD10K100 PMD11K100	UNIT
Collector-Base Voltage Collector-Emitter Vol Emitter-Base Voltage Collector Current Collector Current (Pe Base Current Power Dissipation Operating and Storage	tage ak)	VCBO VCEO VEBO IC ICM IB PD TJ, TSTG	60 60 5.0 12 20 0.2 150	80 80 5.0 12 20 0.2 150 -65 TO +200	100 100 5.0 12 20 0.2 150	V V A A A W ° C
Thermal Resistance	ounceron remperature	Θ _{JC}		1.17		°C/W
ELECTRICAL CHARACTERI	STICS (T _C =25°C unles	s otherwis	e noted)			
SYMBOL	TEST CONDITIONS			MIN	MAX	UNIT
CER CER	V _{CE} =Rated V _{CEO} , R _{BE} = V _{CE} =Rated V _{CEO} , R _{BE} = V _{EB} =5.0V	1.0KΩ 1.0KΩ, T _C =	150°C		1.0 5.0 2.0	mA mA mA
IEBO BVCEO BVCEO BVCEO VCE(SAT) VBE(SAT) VBE(ON)	I _C =100mA (PMD10K60,P I _C =100mA (PMD10K80,P	MD11K80)		60 80		V V V
	IC=100mA (PMD10K100, IC=6.0A, I _B =24mA IC=6.0A, I _B =24mA VCE=3.0V, IC=6.0A VCE=3.0V, IC=6.0A	PMD11K100)		1000	2.0 2.8 2.8 20,000	V V V
hFE (PMD10K series) hFE (PMD11K series) hfe fT C _{Ob}	V _{CE} =3.0V, I _C =6.0A V _{CE} =3.0V, I _C =5.0A, f V _{CE} =3.0V, I _C =5.0A, f V _{CB} =10V, I _E =0, f=1.0	=1.0MHz		800 300 4.0	20,000	MHz pF

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 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

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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 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

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