

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

1N1183A THRU 1N1190A
1N1183RA THRU 1N1190RA

SILICON POWER RECTIFIER
40 AMPS 50-600 VOLTS

JEDEC D0-5 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N1183A series types are medium current silicon power rectifiers designed for general purpose rectifier applications. Normal polarity is cathode to case, for reverse polarity add "R" to part number (EX: 1N1183RA).

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

	SYMBOL	1N 1183A	1N 1184A	1N 1185A	1N 1186A	1N 1187A	1N 1188A	1N 1189A	1N 1190A	UNIT
Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
DC Blocking Voltage	V _R	50	100	150	200	300	400	500	600	V
RMS Reverse Voltage	V _R (RMS)	35	70	105	140	210	280	350	420	v
Average Forward Current (T _C =150°C)	I _O				40					A
Peak Surge Current	I _{FSM}				800					A
Operating and Storage Junction Temperature	T _J , T _{STG}				-65 TO +200					°C
Thermal Resistance	θ _{JC}				1.0					°C/W

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V _F	I _F =40A		1.1	V
I _R	V _R =Rated V _{RRM}		100	μA
I _R	V _R =Rated V _{RRM} , T _C =150°C		5.0	mA

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

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

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.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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