



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

MD200A08D2 MD200A12D2 MD200A16D2 MD200A18D2

200 Amp

GLASS PASSIVATED

RECTIFIER DIODE

MODULES

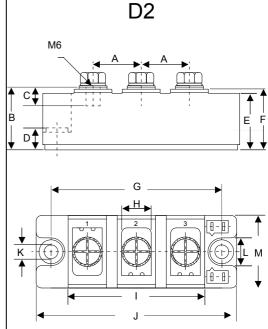
800~1800 Volts

Features

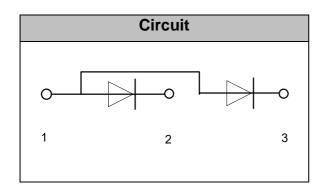
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Blocking Voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors



	•	DIME	NSIONS		
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.894	.917	22.70	23.30	
В	1.169	1.193	29.70	30.30	
С	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
Е	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
Н	.500	.524	12.70	13.30	
- 1	2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	93.70 94.30	
K	.256		6.50		Ø
L	.500	.524	12.70	13.30	
М	1.327	1.350	33.70	34.30	





Module Type

TYPE	V RRM	VRSM
MD200A08D2	800V	900V
MD200A12D2	1200V	1300V
MD200A16D2	1600V	1700V
MD200A18D2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
lfav	Single phase ,half wave 180° conduction Tc=95℃	200	Α
IFSM	t=10mS Tvj =45℃	6800	Α
i ² t	t=10mS Tvj =45℃	231200	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 150	${\mathbb C}$
Tstg		-40 to 125	$^{\circ}$
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	160	g

Thermal Characteristics

	41.40.01.101.00			
Symbol	Conditions	Values	Units	
Rth(j-c)	Per diode	0.18	°C/W	
Rth(c-s)	Module	0.05	°C/W	

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Тур.	Max.	Ullits
VFM	T=25℃ IF =300A	1	1.18	1.30	٧
IRD	Tvj=150°C VRD=VRRM	1	1	9	mA
r _f	- T _J =25℃		1.13		$m\Omega$
V_{fO}			0.84		V



Performance Curves

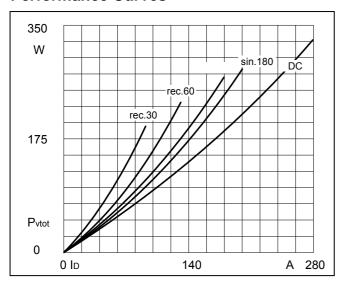


Fig1. Power dissipation

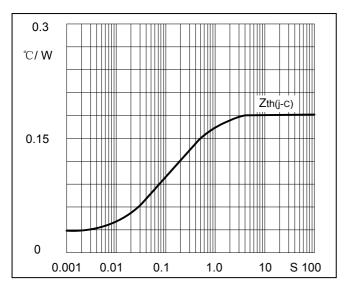


Fig3. Transient thermal impedance

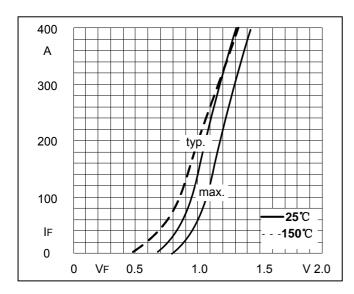


Fig5. Forward Characteristics

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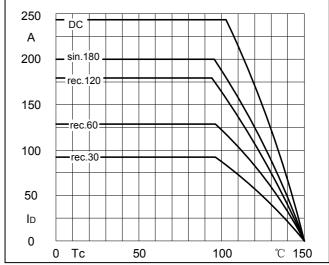


Fig2.Forward Current Derating Curve

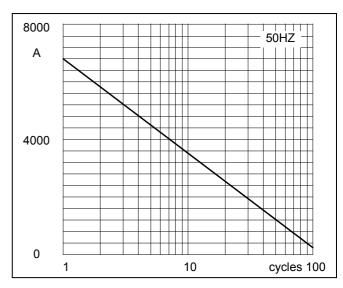


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 8PCS/BOX;80PCS/CTN

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