

Micro Commercial Components



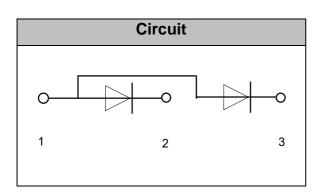
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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

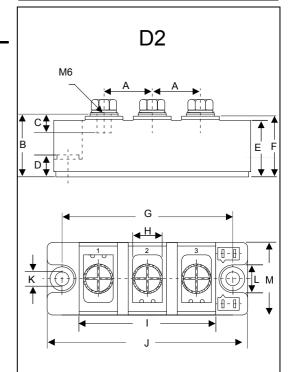
Applications

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



MD200A08D2 MD200A12D2 MD200A16D2 MD200A18D2

200 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts



	INC	HES	NSIONS MM		T	
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.886	0.925	22.50	23.50		
В	1.161	1.201	29.50	30.50		
С	0.335	0.374	8.50	9.50		
D	0.315	0.350	8.00	8.90		
E	1.043	1.083	26.50	27.50		
F	1.122	1.161	28.50	29.50		
G	3.130	3.169	79.50	80.50		
Н	0.492	0.531	12.50	13.50		
1	2.500	2.539	63.50	64.50		
J	3.681	3.720	93.50	94.50		
К	0.256		6.50		Φ	
L	0.492	0.531	12.50	13.50		
М	1.319	1.358	33.50	34.50		

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Module Type

ТҮРЕ	Vrrm	Vrsm
MD200A08D2	800V	900V
MD200A12D2	1200V	1300V
MD200A16D2	1600V	1700V
MD200A18D2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180 $^\circ$ conduction Tc=95 $^\circ\!\mathrm{C}$	200	A
IFSM	t=10mS Tvj =45℃	6800	A
i²t	t=10mS Tvj =45℃	231200	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 150	°C
Tstg		-40 to 125	°C
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	160	g

Thermal Characteristics

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.	Units
Vfm	T=25℃ IF =300A	—	1.18	1.30	V
Ird	Tvj=150℃ VRD=VRRM	—		9	mA
r _f	T -25°C		1.13		mΩ
V _{fO}	T _J =25℃		0.84		V



Performance Curves

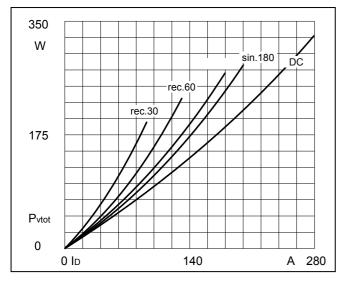


Fig1. Power dissipation

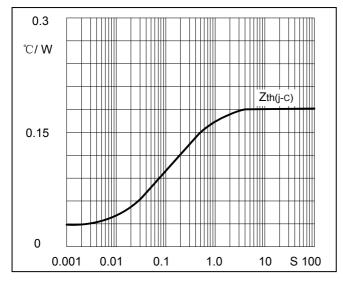


Fig3. Transient thermal impedance

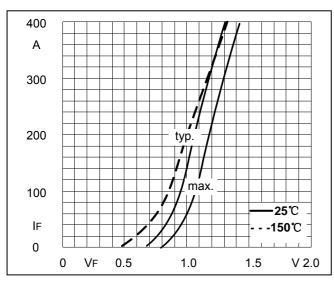


Fig5. Forward Characteristics

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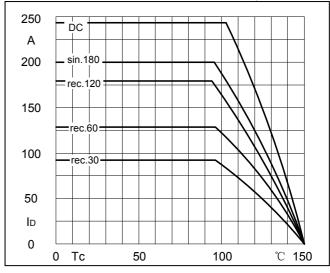


Fig2.Forward Current Derating Curve

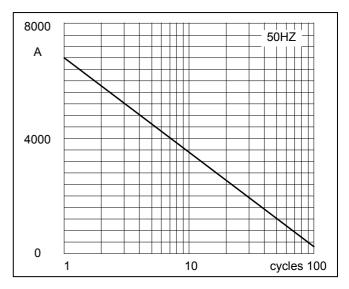


Fig4. Max Non-Repetitive Forward Surge Current

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Ordering Information :

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

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