



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 MD200C08D2 MD200C12D2 MD200C16D2 MD200C18D2

200 Amp

GLASS PASSIVATED

RECTIFIER DIODE

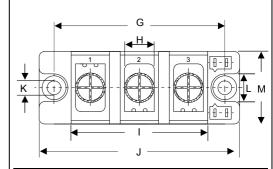
Features

- 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

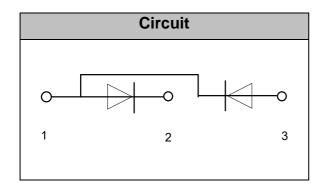
Applications

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

MODULES 800~1800 Volts D2



	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	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	VRRM	Vrsm
MD200C08D2	800V	900V
MD200C12D2	1200V	1300V
MD200C16D2	1600V	1700V
MD200C18D2	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

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	1.18	1.30	V
IRD	Tvj=150°C VRD=VRRM	1	1	9	mA
r _f	T,=25℃		1.13		$m\Omega$
V_{fO}	1 J-23 C		0.84		V



Performance Curves

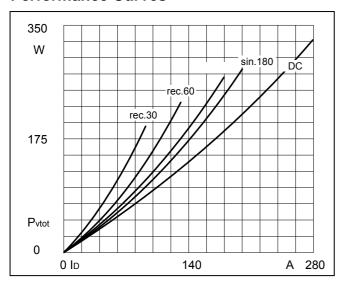


Fig1. Power dissipation

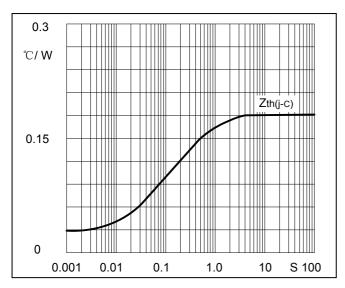


Fig3. Transient thermal impedance

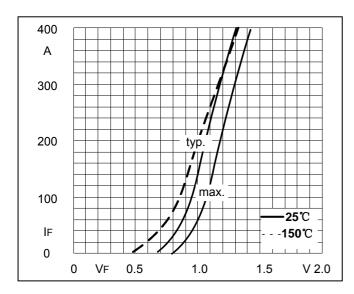


Fig5. Forward Characteristics

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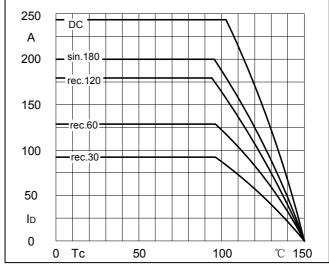


Fig2.Forward Current Derating Curve

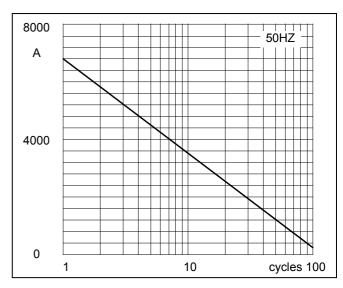


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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