



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933

Fax: (818) 701-4939

MD240C08D2 MD240C12D2 MD240C16D2 MD240C18D2

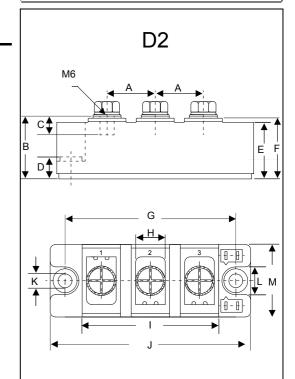
Features

- 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

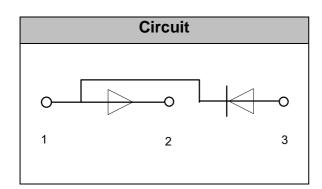
Applications

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

240 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts



		DIMEN	ISIONS			
DIM	INCHES		MM		NOTE	
	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		
K	0.256		6.50		Ф	
L	0.492	0.531	12.50	13.50		
М	1.319	1.358	33.50	34.50		





Module Type

TYPE	VRRM	VRSM
MD240C08D2	800V	900V
MD240C12D2	1200V	1300V
MD240C16D2	1600V	1700V
MD240C18D2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=95℃	240	Α
IFSM	t=10mS Tvj =45℃	7550	А
i ² t	t=10mS Tvj =45℃	285000	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 150	${\mathbb C}$
Tstg		-40 to 125	${\mathbb C}$
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	0.16	°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	_	1.15	1.25	V
IRD	Tvj=150°C VRD=VRRM	_	_	9	mA
r _f	T,=25℃		1.16		mΩ
V_{fO}	1J-23 C		0.79		V



Performance Curves

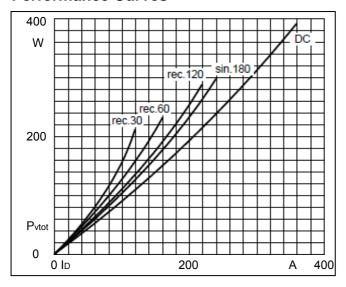


Fig1. Power dissipation

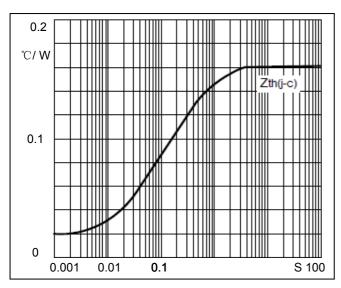


Fig3. Transient thermal impedance

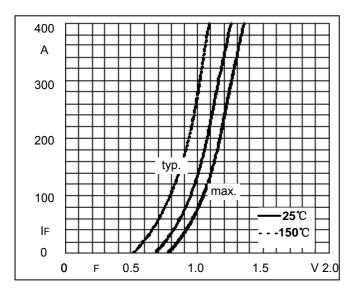


Fig5. Forward Characteristics

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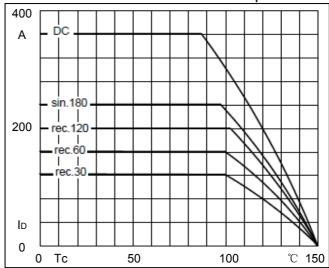


Fig2.Forward Current Derating Curve

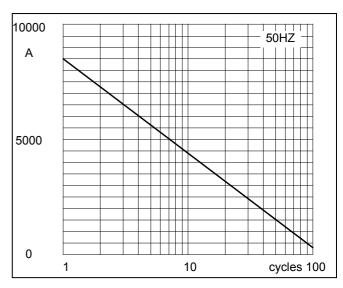


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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