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Phone: (818) 701-4933 Fax: (818) 701-4939 MD70A08D1 MD70A12D1 MD70A16D1 MD70A18D1

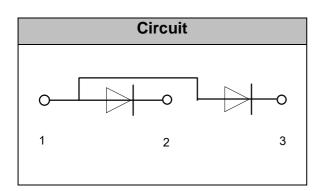
Features

- 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

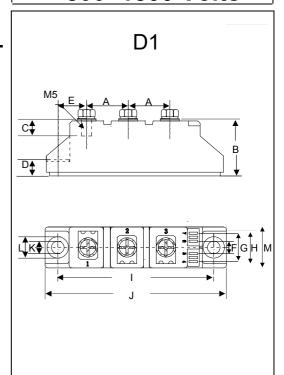
Applications

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





70 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts



DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.768	0.807	19.50	20.50		
В	1.161	1.201	29.50	30.50		
С	0.335	0.374	8.50	9.50		
D	0.315	0.354	8.00	9.00		
E	0.594	0.630	15.10	16.00		
F	0.217	0.256	5.50	6.50		
G	0.531	0.571	13.50	14.50		
Н	0.650	0.689	16.50	17.50		
	3.130	3.169	79.50	80.50		
J	3.642	3.681	92.50	93.50		
K	0.256		6.50		Ф	
L	0.413	0.453	10.50	11.50		
M	0.807	0.846	20.50	21.50		



Module Type

J I		
TYPE	VRRM	Vrsm
MD70A08D1	800V	900V
MD70A12D1	1200V	1300V
MD70A16D1	1600V	1700V
MD70A18D1	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I FAV	Single phase ,half wave 180° conduction Tc=102℃	70	А
IFSM	t=10mS Tvj =45℃	1400	Α
i ² t	t=10mS Tvj =45℃	9800	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 150	$^{\circ}$
Tstg		-40 to 125	$^{\circ}$
Mt	To terminals(M5)	3±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	100	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.51	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Тур.	Max.	Ollits
VFM	T=25°C IF =200A	_	1.20	1.30	V
Ird	Tvj=150℃ VRD=VRRM	_	_	5	mA



Performance Curves

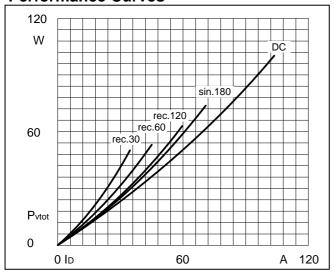


Fig1. Power dissipation

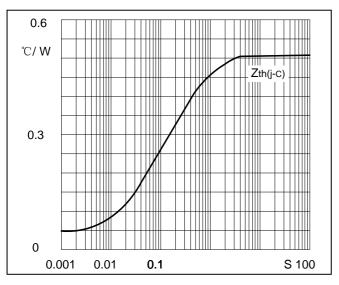


Fig3. Transient thermal impedance

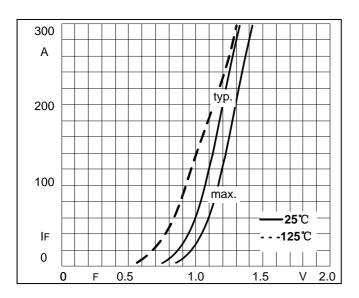


Fig5. Forward Characteristics

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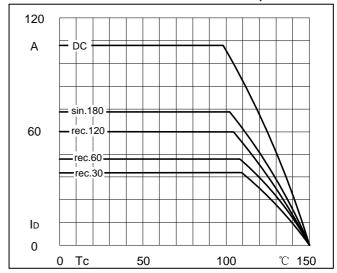


Fig2.Forward Current Derating Curve

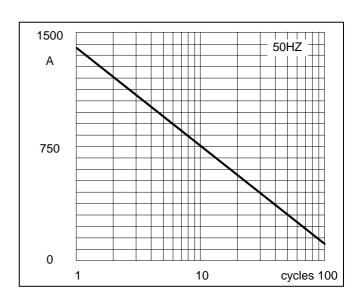


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 10PCS/BOX;100PCS/CTN

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