



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 MD36K08D1 MD36K12D1 MD36K16D1 MD36K18D1

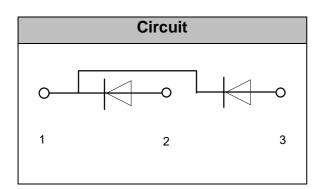
Features

- 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

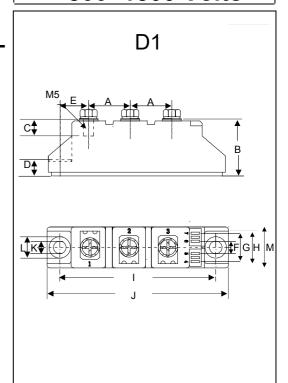
Applications

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





36 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

TYPE	VRRM	VRSM
MD36K08D1	800V	900V
MD36K12D1	1200V	1300V
MD36K16D1	1600V	1700V
MD36K18D1	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I _{FAV}	Single phase ,half wave 180° conduction Tc=104℃	36	Α
I _{FSM}	t=10mS Tvj =45℃	650	Α
i ² t	t=10mS Tvj =45℃	2100	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	$^{\circ}\mathbb{C}$
Tstg		-40 to +125	$^{\circ}\mathbb{C}$
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	1.0	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Unito
		Min.	Тур.	Max.	Units
$V_{\sf FM}$	T=25℃ I _F =100A	_	1.25	1.40	V
I _{RD}	Tvj=150°C V _{RD} =V _{RRM}	_	_	5	mA



Performance Curves

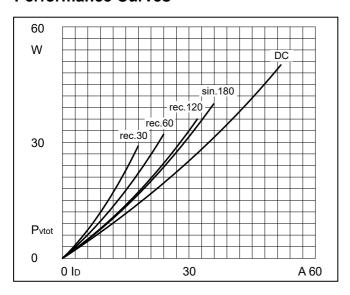


Fig1. Power dissipation

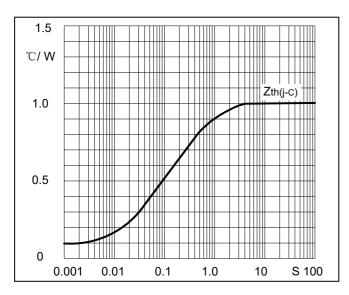


Fig3. Transient thermal impedance

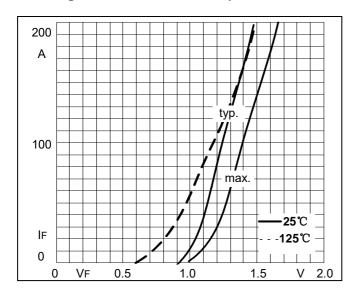


Fig5. Forward Characteristics

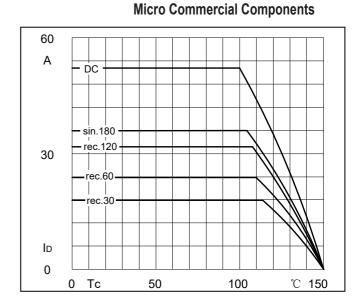


Fig2.Forward Current Derating Curve

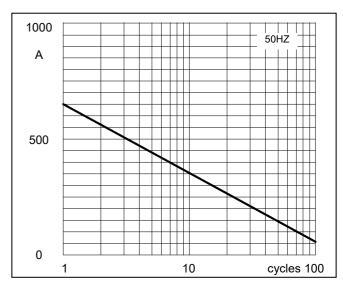


Fig4. Max Non-Repetitive Forward Surge Current



Ordering Information:

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

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