

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

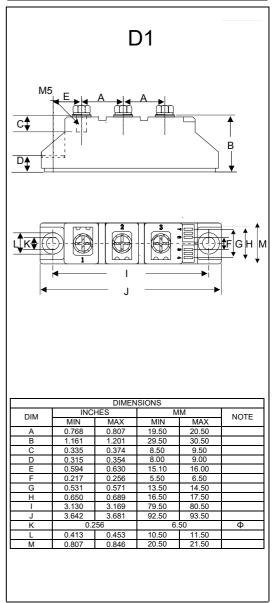
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors



	Circuit	
o—		
1	2	3

MD60C08D1 MD60C12D1 MD60C16D1 MD60C18D1

60 Amp GLASS PASSIVATED RECTIFIER DIODE MODULES 800~1800 Volts



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Module Type

ТҮРЕ	VRRM	Vrsm
MD60C08D1	800V	900V
MD60C12D1	1200V	1300V
MD60C16D1	1600V	1700V
MD60C18D1	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I FAV	Single phase ,half wave 180 $^\circ$ conduction Tc=100 $^\circ\mathrm{C}$	60	А
IFSM	t=10mS Tvj =45℃	1150	А
i ² t	t=10mS Tvj =45℃	6600	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(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	0.59	°C/W
Rth(c-s)	Module	0.1	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Symbol		Min.	Тур.	Max.	Units
Vfm	T=25℃ IF =200A		1.30	1.45	V
Ird	Tvj=150℃ VRD=VRRM			5	mA

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Performance Curves

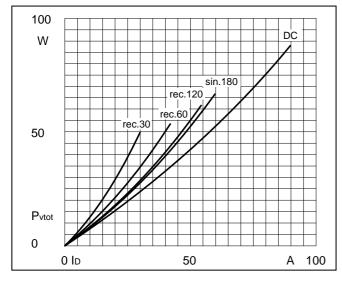


Fig1. Power dissipation

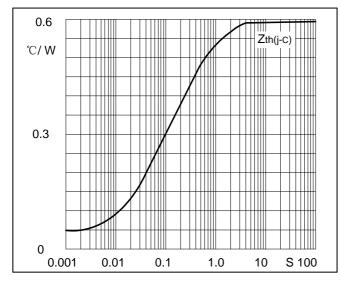


Fig3. Transient thermal impedance

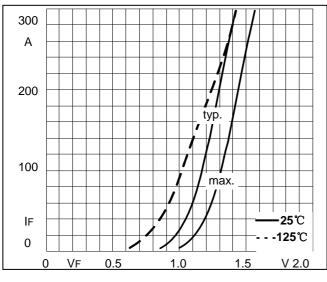


Fig5. Forward Characteristics

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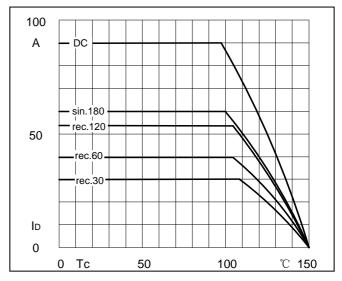


Fig2.Forward Current Derating Curve

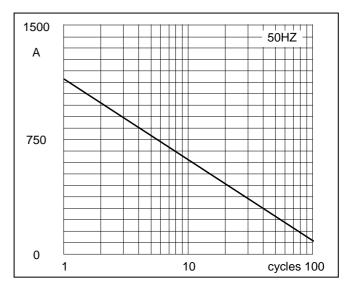


Fig4. Max Non-Repetitive Forward Surge Current

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Revision: A



Ordering Information :

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

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