Features

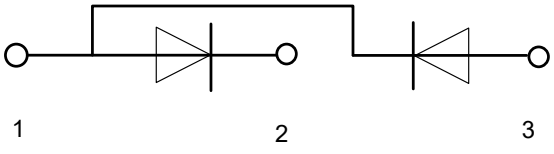
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Heat Transfer Through Aluminum Oxide DBC Ceramic Isolated Metal Baseplate
- Blocking voltage:1200 to 1800V

260 Amp DIODE MODULES 1200 to 1800 Volts

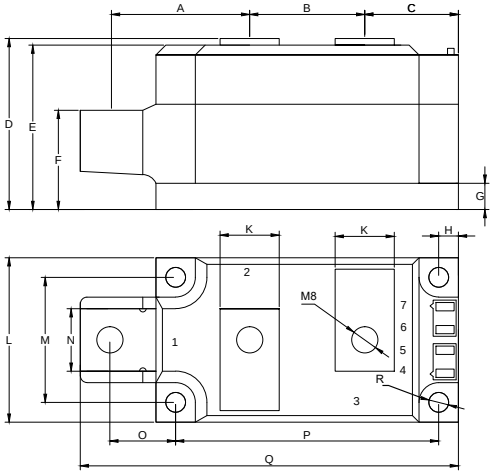
Applications

- Non-Controllable Rectifiers for AC/AC Converters
- Line Rectifiers for Transistorized AC Motor Controllers
- Field Supply for DC Motors

MCC Part Number	V_{RRM}	V_{RSM}
MD260C12D3	1200V	1400V
MD260C14D3	1400V	1600V
MD260C16D3	1600V	1800V
MD260C18D3	1800V	2000V



D3



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.654	1.693	42.00	43.00	
B	1.358	1.398	34.50	35.50	
C	1.102	1.142	28.00	29.00	
D	2.028	2.067	51.50	52.50	
E	1.909	1.988	48.50	50.50	
F	1.240	1.280	31.50	32.50	
G	0.295	0.335	7.50	8.50	
H	0.217	0.256	5.50	6.50	
K	0.689	0.728	17.50	18.50	
L	1.791	1.988	45.50	50.50	
M	1.476	1.516	37.50	38.50	
N	0.728	0.768	18.50	19.50	
O	0.768	0.807	19.50	20.50	
P	3.130	3.169	79.50	80.50	
Q	4.508	4.547	114.50	115.50	
R	0.236	0.276	6.00	7.00	∅

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Maximum Ratings

Symbol	Conditions	Values	Units
I_{FAV}	Single phase ,half wave 180° conduction Tc=95℃	260	A
I_{FSM}	t=10mS Tvj =45℃	8500	A
i^2t	t=10mS Tvj =45℃	361000	A^2s
V_{isol}	a.c.50HZ;r.m.s.;1min	2500	V
T_{vj}		-40 to 150	℃
T_{stg}		-40 to 125	℃
Mt	To terminals(M6)	12±15%	Nm
Ms	To heatsink(M6)	6±15%	Nm
Weight	Module (Approximately)	650	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	0.14	℃/W
$R_{th(c-s)}$	Module	0.04	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{FM}	T=25℃ I_F =300A	—	—	1.45	V
I_{RD}	T_{vj}=150℃ V_{RD}=V_{RRM}	—	—	9	mA

Performance Curves

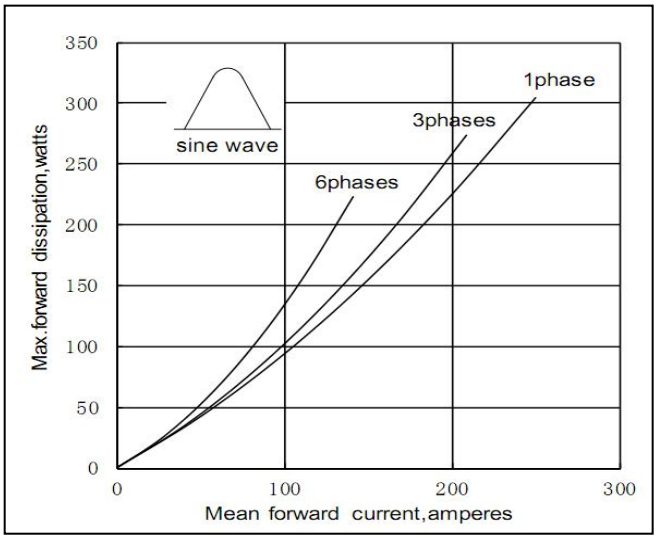


Fig1. Power dissipation

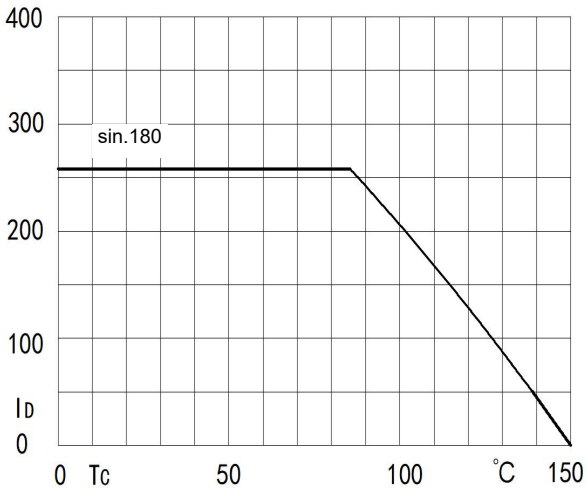


Fig2.Forward Current Derating Curve

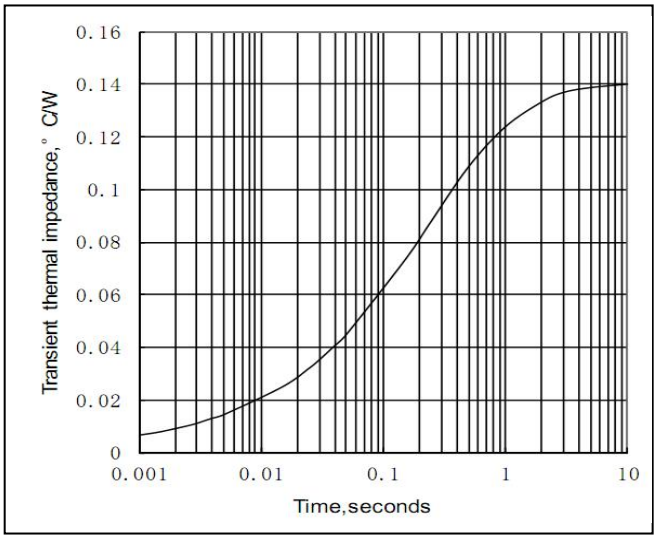


Fig3. Transient thermal impedance

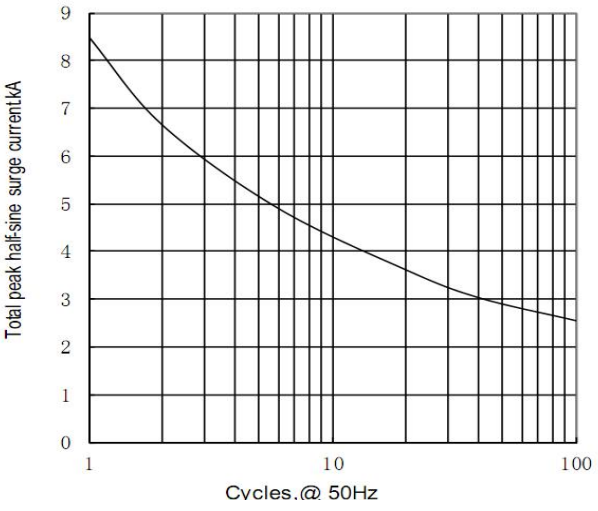


Fig4. Max Non-Repetitive Forward Surge Current

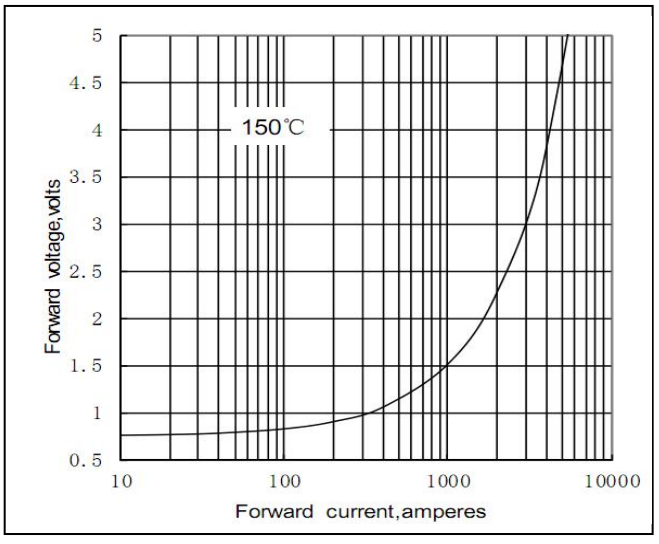


Fig5. Forward Characteristics

Ordering Information

Device	Packing
Part Number-BP	Bulk: 3PCS/BOX ;18PCS/CTN

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