

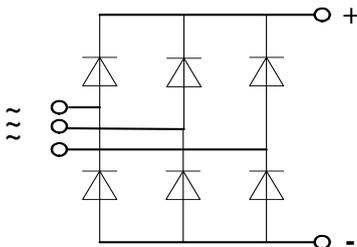
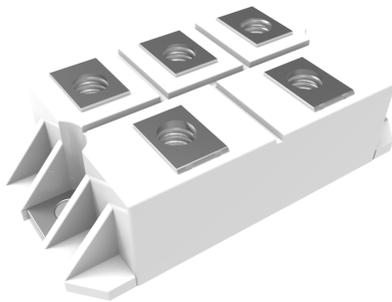
Features

- Blocking Voltage: 1600V
- Heat Transfer Through Aluminum Oxide DBC Ceramic
- Isolated Metal Baseplate
- Glass Passivated Chip

Applications

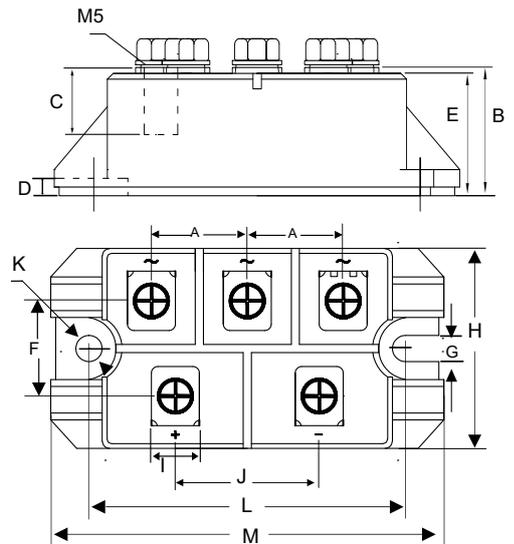
- Three Phase Rectifiers for Power Supplies
- Rectifiers for DC Motor Field Supplies
- Battery Charger Rectifiers

Part Number	V _{RRM}	V _{RSM}
MD75S16M4	1600V	1700V



**75 Amp
Glass Passivated
Three Phase
Rectifier Bridge
1600 Volts**

M4



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.768	.807	19.50	20.50	
B	.846	.886	21.50	22.50	
C	.433	.472	11.00	12.00	
D	.098	.138	2.50	3.50	
E	.807	.846	20.50	21.50	
F	.768	.807	19.50	20.50	
G	.197	.236	5.00	6.00	
H	1.63	1.67	41.50	42.50	
I	.374	.413	9.50	10.50	
J	1.16	1.20	29.50	30.50	
K	.217		5.50		∅
L	2.58	2.62	65.50	66.50	
M	3.21	3.25	81.50	82.50	

Maximum Ratings

Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=110°C	75	A
IFSM	t=10mS Tvj =45°C	1020	A
i ² _t	t=10mS Tvj =45°C	5500	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(M5)	3±15%	Nm
Weight	Module (Approximately)	146	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	1.1	°C/W
Rth(j-c)	Per Module	0.183	°C/W
Rth(c-s)	Module (Approximately)	0.07	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
VFM	T=25°C IF =150A	—	1.38	1.50	V
rf	T _J =25°C	-	3.5	-	mΩ
VfO	T _J =25°C	-	0.855	-	V
IRD	Tvj=25°C VRD=VRRM Tvj=150°C VRD=VRRM	—	—	0.3 5	mA mA

Curve Characteristics

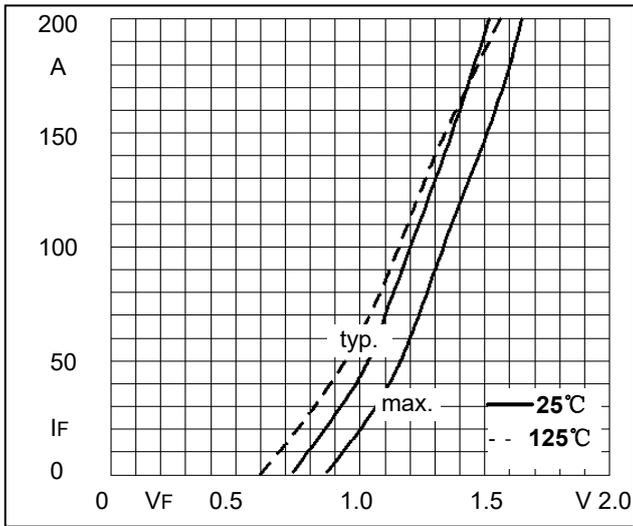


Fig1. Forward Characteristics

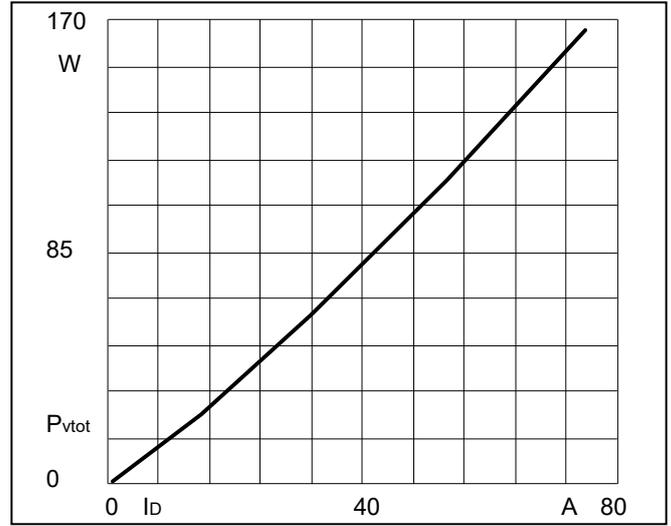


Fig2. Power dissipation

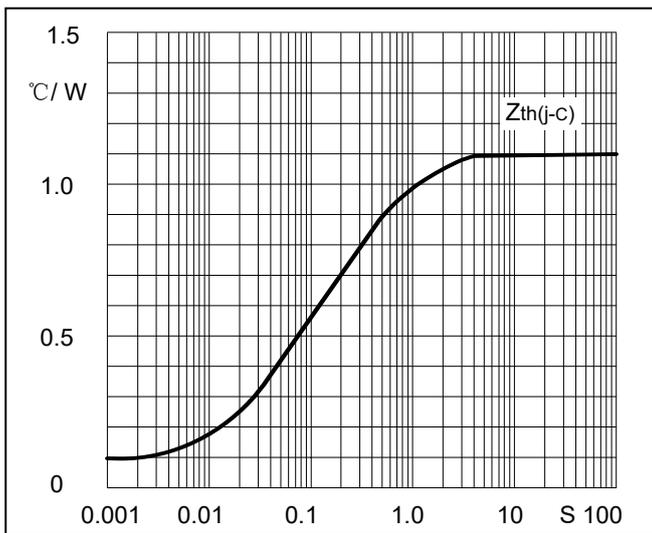


Fig3. Transient thermal impedance

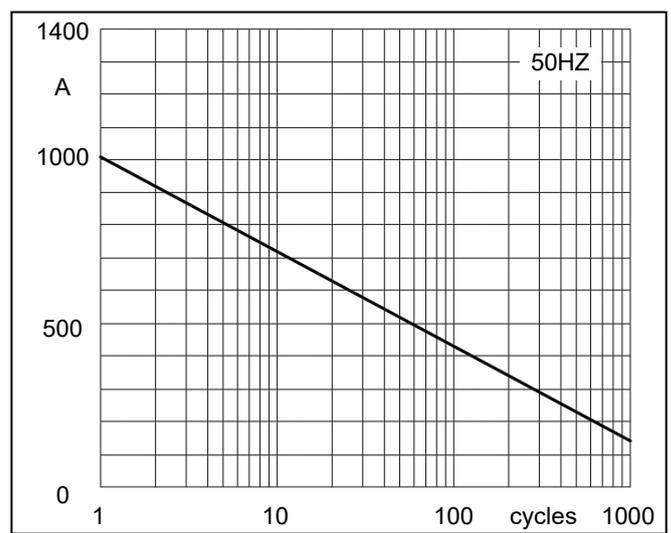


Fig4. Max Non-Repetitive Forward Surge Current

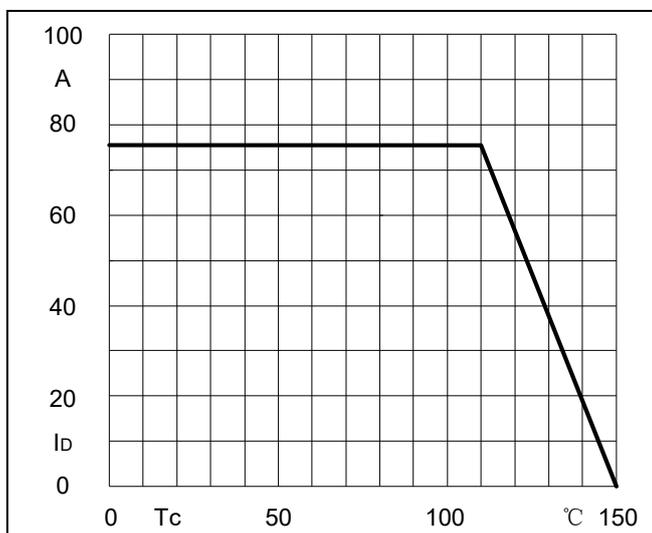


Fig5. Forward Current Derating Curve

Ordering Information

Device	Packing
Part Number-TP	Bulk: 6pcs/Box; 60pcs/Ctn

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