Technical Information Three Phase Diode Bridge Rectifier

MDS60





Features

- Full blocking capability over wide temperature range
- Heat transfer through isolated metal base plate .
- Hard soldered joints for high reliability

- ApplicationsPower Supplies
- Uncontrolled Rectifiers
- Field supply for DC motors

Ordering Information

MDS	60	- X X
Three Phase Diode bridge rectifier	Current Code	Voltage Code Code X 100 = V _{RRM}
Order Code MDS60–16 : 1600V VRRM, Three Phase Diode bridge rectifier		

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Vrrm	= 1600V
I _{D(AV)}	= 60A
FSM	= 800A
Vf(to)	= 0.90V
ΓF	= 6.0mΩ

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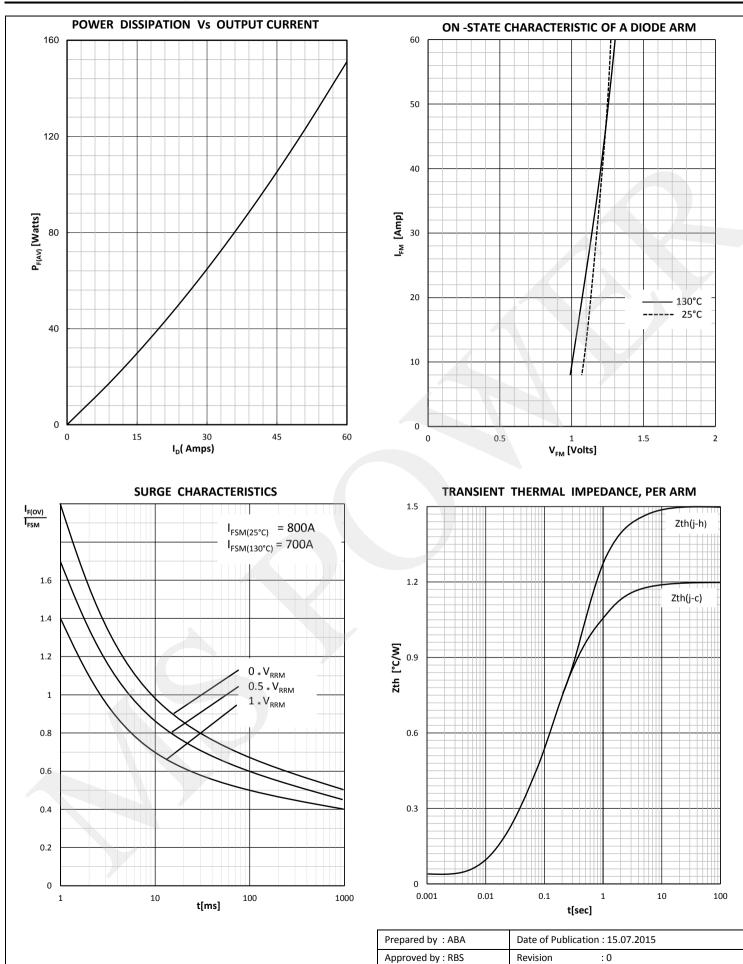
MDS60



	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG			<u> </u>	
V RRM	Repetitive peak reverse voltage		130	800 - 1600	V
V RSM	Non-repetitive peak reverse voltage		130	900 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	130	5	mA
CONDU	CTING				
I D (AV)	DC output current	T _c =100°C		60	А
		Sine wave, 10 ms	25	800	А
I FSM	Surge forward current	Without reverse voltage	130	700	А
	-	Sine wave, 10 ms	25	3200	A²s
l² t	l² t	Without reverse voltage	130	2450	A ² s
V F	Forward voltage	On-state current = 60A	25	1.26	V
V F(TO)	Threshold voltage		130	0.90	V
r _F	Forward slope resistance		130	6.0	mΩ
MOUNT		Junction to case, per arm		1.20	
R th(j-c)	Thermal impedance, sin 180°	per bridge		0.20	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per bridge		0.05	°C/W
Тj	Max. junction temperature			130	°C
T stg	Storage temperature			-40 125	°C
VISOL	Insulation test voltage, RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			4 ± 15%	Nm
M2 W	Terminal connection torque Weight (Approx.)			4 ± 15% 165	Nm gm
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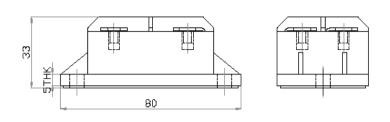




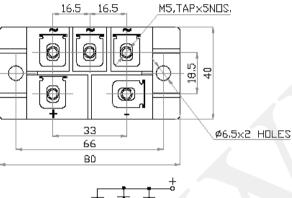
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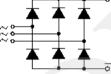
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Outline



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