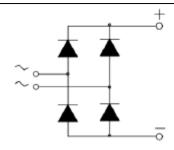
Single Phase Diode Bridge Rectifier

MDQ35





Key Parameters

 $\begin{array}{lll} V_{RRM} & = 1200 V \\ I_{D(AV)} & = 35 A \\ I_{FSM} & = 400 A \\ V_{F(TO)} & = 0.85 V \\ r_{F} & = 10.0 m \Omega \end{array}$

Features

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

Applications

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

Ordering Information

MDQ	35	- X X
Single Phase Diode bridge rectifier	Current Code	Voltage Code Code X 100 = V _{RRM}
Order Code MDQ35–12: 1200V V _{RRM} , Single Phase Diode bridge rectifier		

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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1200	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1300	V
I RRM	Repetitive peak reverse current	V= V RRM	150	10	mA
CONDU	CTING				
I D (AV)	DC output current	T _c =85°C		35	Α
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	400	А
			150	300	Α
		Sine wave, 10 ms Without reverse voltage	25	800	A ² s
l² t	l² t		150	450	A²s
VF	Forward voltage	On-state current = 50A	25	1.35	V
V F(TO)	Threshold voltage		150	0.85	V
r _F	Forward slope resistance		150	10	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per bridge		2.8 0.7	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per bridge		0.4	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 150	°C
V_{ISOL}	Insulation test voltage, RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			3 ± 15%	Nm
W	Weight (Approx.)			25	gm

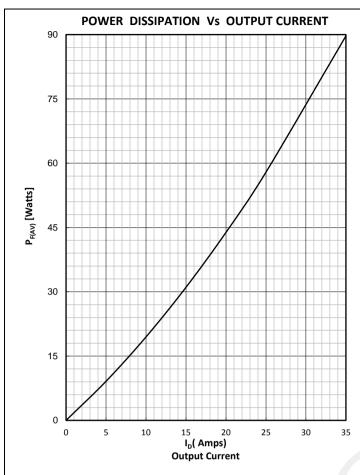
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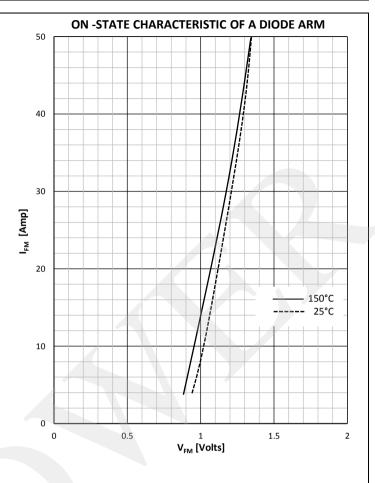
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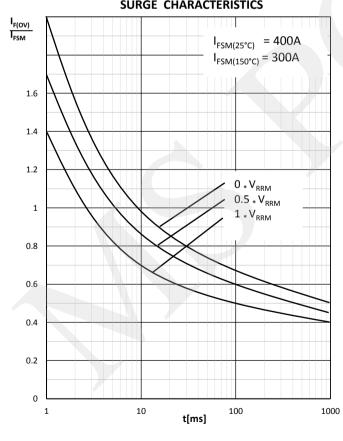
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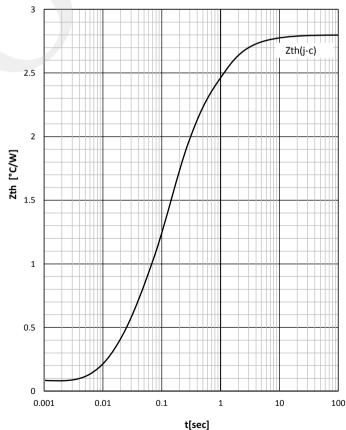




SURGE CHARACTERISTICS



TRANSIENT THERMAL IMPEDANCE, PER ARM

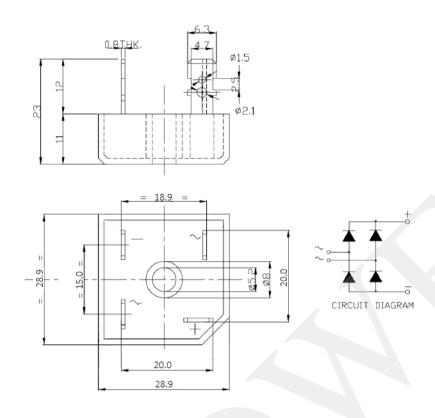


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MDQ35



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Single Phase Diode Bridge Rectifier





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