MS D100





Key Parameters

 V_{RRM} = 1600V= 1600 v = 125A I_{F(AV)} = 1750A **I**FSM $V_{F(TO)}$ = 0.85 V $= 1.8 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Hermetic metal case with glass insulator
- Threaded stud

Applications Power Supplies

- Uncontrolled Rectifiers
- Battery Chargers

Ordering Information

MS D	100	N	ХX	M	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads M = Stud M12 X 1.75 M1= Stud M16 X 1.5	Technology B = Solder Bond Technology
Order Code MS D100N16MB : 1600V VRRM Metric Stud. Diode with stud Cathode					

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Technical Information Power Rectifier Diodes

MS D100



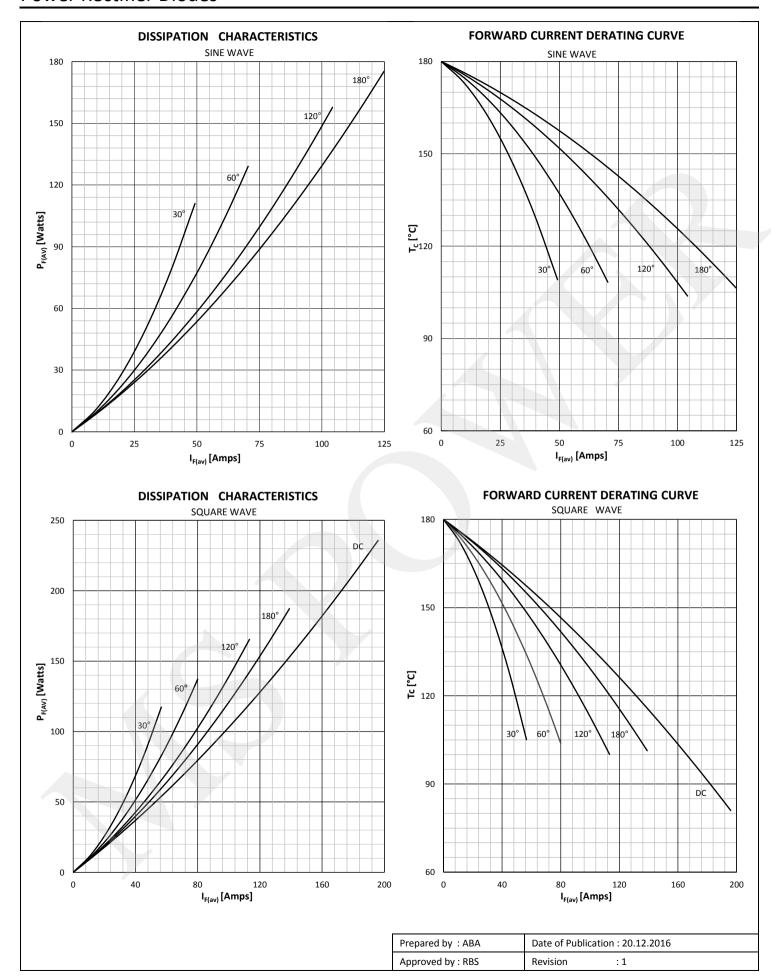
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	15	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =106°C T _c =125°C		125 100	А
I FRMS	RMS current			196	Α
1 ====	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	1750	Α
I FSM			180	1500	А
		Sine wave, 10 ms	25	15312	A ² s
l² t		Without reverse voltage	180	11250	A ² s
VF	Forward voltage	On-state current = 400A	180	1.57	V
V F(TO)	Threshold voltage		180	0.85	V
r _F	Forward slope resistance		180	1.8	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.42	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.08	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			10 - 13	NM
W	Weight (Approx.)			110	gm

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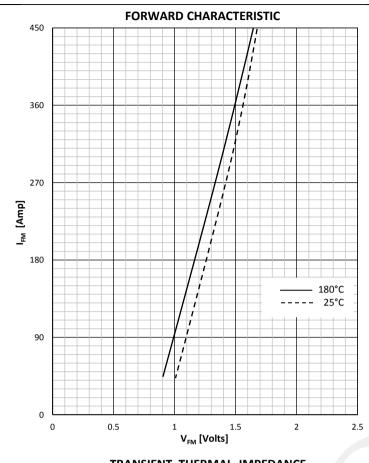


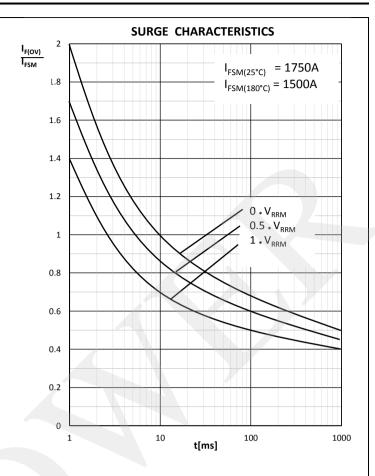
Technical Information

Power Rectifier Diodes

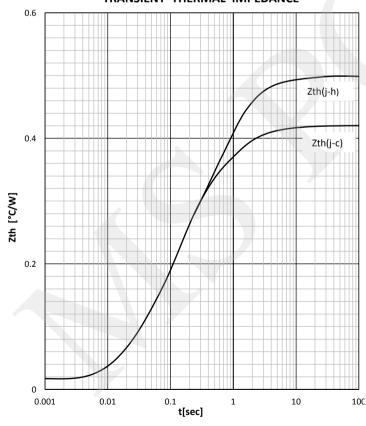
MS D100









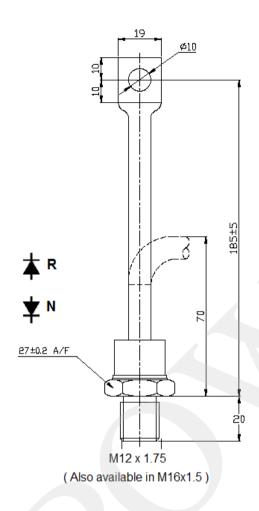


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