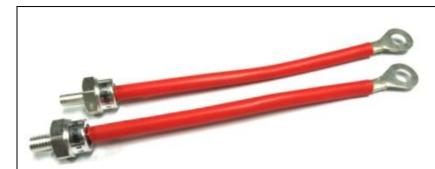
MS D70





Key Parameters

= 1800V = 95A = 1150A = 0.85V = 3.0mΩ V_{RRM} = 1800VI_{F(AV)} IFSM $V_{F(TO)}$ $= 3.0 \text{m}\Omega$ ГF

- 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	70	N	хх	M	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads M = Stud M8 X 1.25 U = 1/4" UNF M1 = Stud M6 X 1	Technology B = Solder Bond Technology
Order Code, MS D70N16MB : 1600V, VRPM, Metric Stud, Diode with stud Cathode					

Prepared by : ABA	Date of Publication : 20.12.2016	
Approved by : RBS	Revision	: 2

Technical Information Power Rectifier Diodes

MS D70



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	180	10	mA
CONDU	CTING		<u>.</u>		
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C T _c = 125°C		95 70	А
I FRMS	RMS current			150	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	1150	Α
I FSM			180	1000	А
	t 2 t	Sine wave, 10 ms Without reverse voltage	25	6612	A ² s
l² t			180	5000	A ² s
VF	Forward voltage	On-state current = 210A	180	1.50	V
V F(TO)	Threshold voltage		180	0.85	V
r _F	Forward slope resistance		180	3.0	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.55	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.20	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			4	NM
W	Weight (Approx.)			40	gm

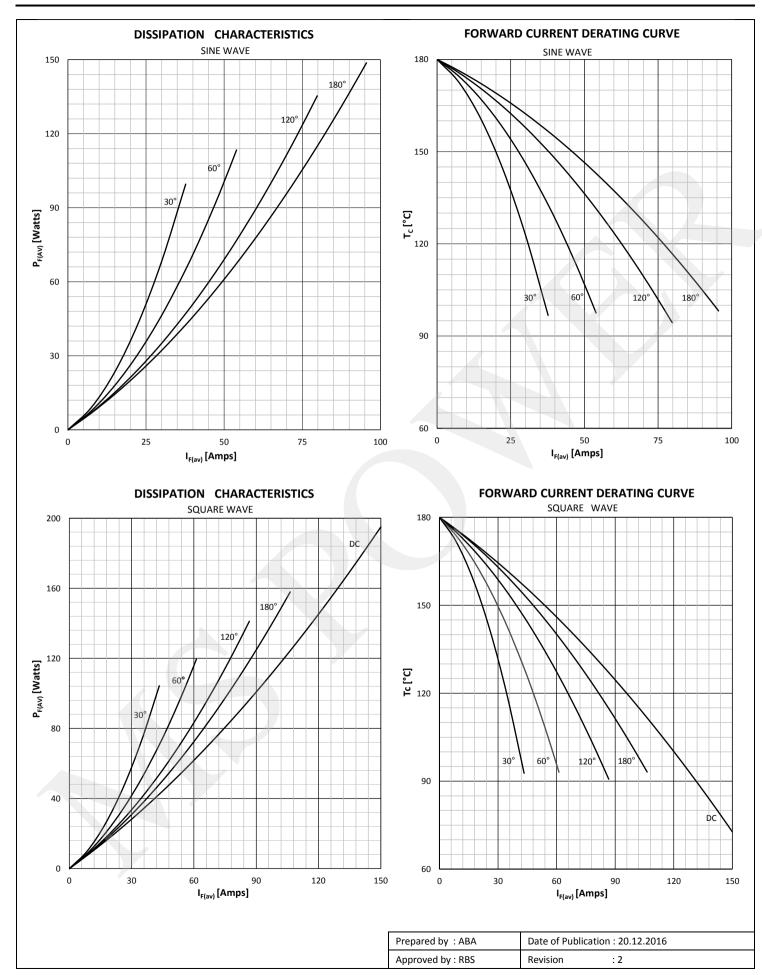
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Technical Information

Power Rectifier Diodes

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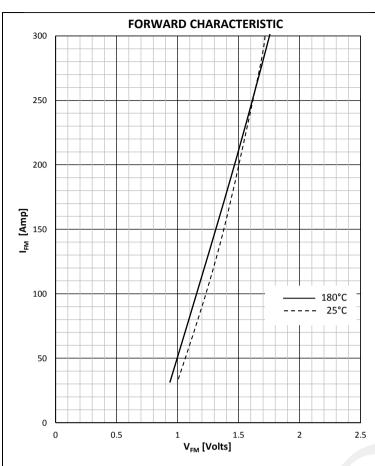


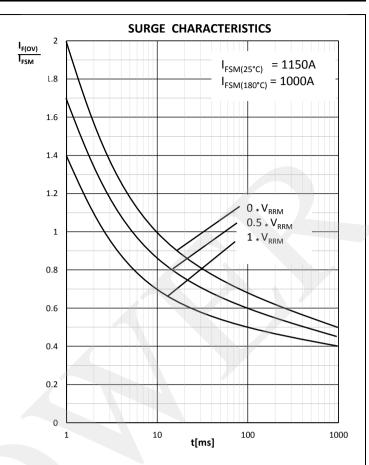


Technical Information Power Rectifier Diodes

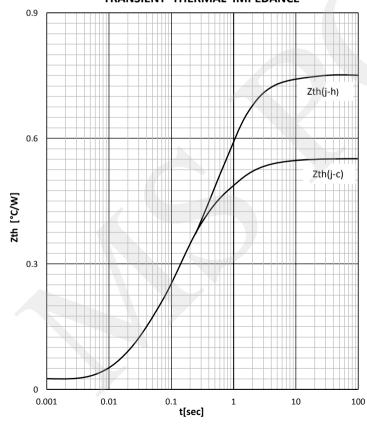
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TRANSIENT THERMAL IMPEDANCE

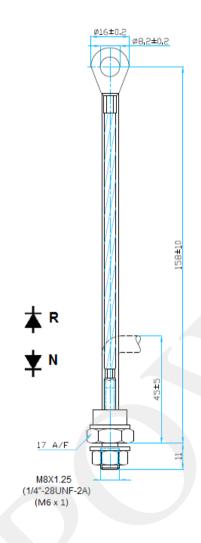


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Approved by : RBS	Revision	: 2	

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Technical Information Power Rectifier Diodes

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