MS D81





Key Parameters

 $\begin{array}{lll} V_{RRM} & = 1600 V \\ I_{F(AV)} & = 80 A \\ I_{FSM} & = 1600 A \\ V_{F(TO)} & = 0.80 V \\ r_{F} & = 2.7 m \Omega \end{array}$

Features

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

- ApplicationsPower SuppliesUncontrolled Rectifiers
- Battery Chargers

Ordering Information

MS D	81	N	ХX	U	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads U = 1/4" UNF	Technology B = Solder Bond Technology
Order Code, MS D81N16UB : 1600V, Veen, UNE Stud, Diode with stud Cathode					

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Technical Information Power Rectifier Diodes

MS D81



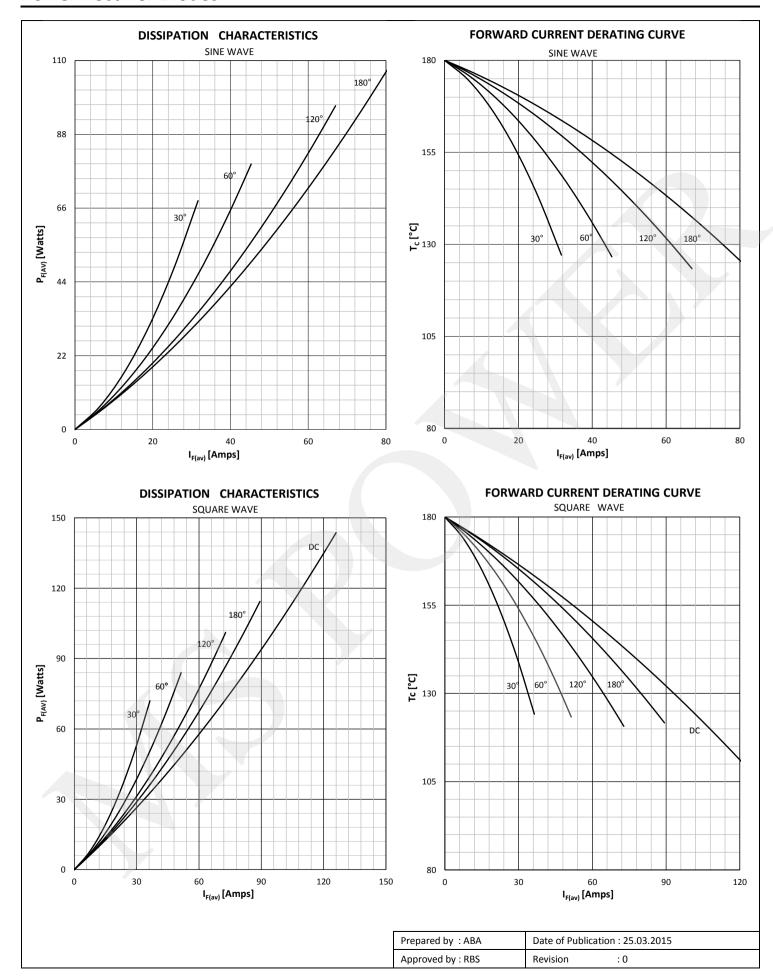
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	1600	V
V RSM	Non-repetitive peak reverse voltage		180	1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	10	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =125°C		80	А
I FRMS	RMS current			126	А
		Sine wave, 10 ms	25	1600	_ A
I FSM	Surge forward current	Without reverse voltage	180	1500	A
		Sine wave, 10 ms	25	12800	A²s
l² t	l² t	Without reverse voltage	180	11250	A²s
VF	Forward voltage	Forward current = 220A	25	1.40	V
V F(TO)	Threshold voltage		180	0.80	V
r _F	Forward slope resistance		180	2.7	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		0.15	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
Α	Acceleration (in rotating application)			200	g
М	Mounting torque			4.5	NM
W	Weight (Approx.)			22	gm

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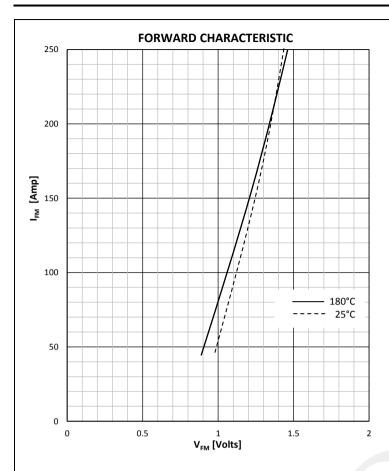


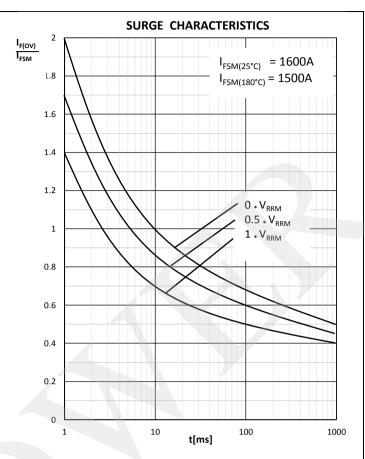
Technical Information

Power Rectifier Diodes

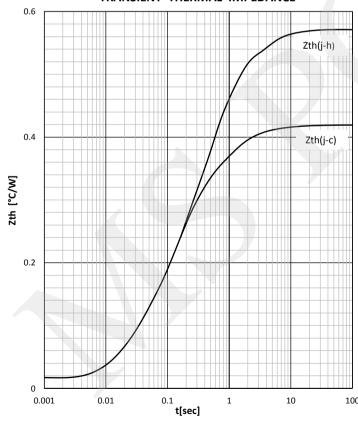
MS D81









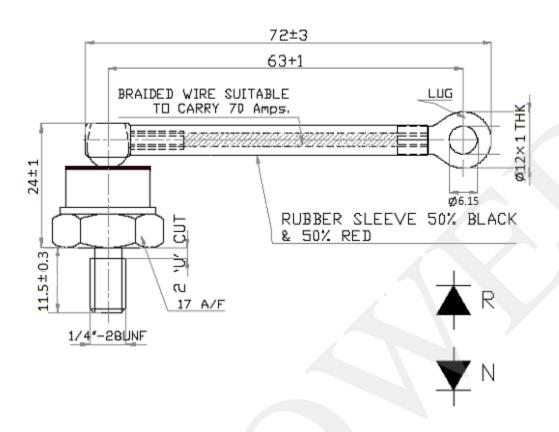


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