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Key Parameters

 V_{RRM} = 1600V= 165A $I_{F(AV)}$ = 2500A I_{FSM} $V_{F(TO)}$ = 0.85 V $= 1.3 \text{m}\Omega$ r _F

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

Rectifier Diode C	urrent code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads M = Stud M12 X 1.75 U = 1/2"-20UNF 2A

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Technical Information Power Rectifier Diodes

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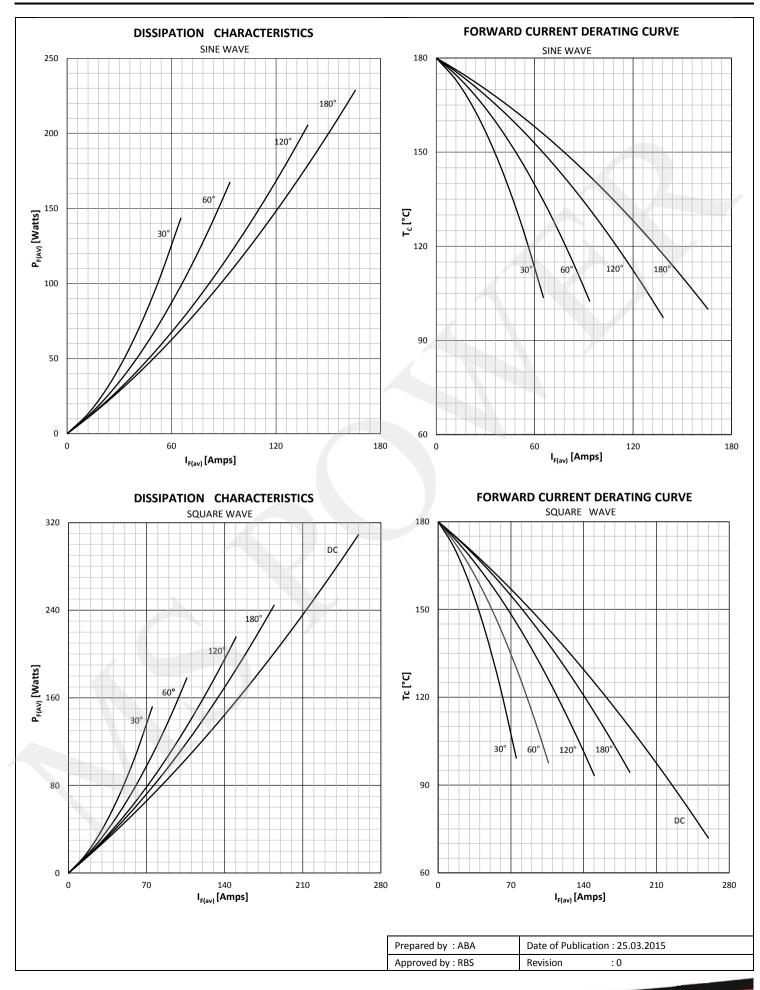


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	15	mA
CONDU	CTING		·		
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C T _c =125°C		165 130	Α
I FRMS	RMS current			260	А
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	2500	Α
I FSM			180	2000	Α
10.4	l² t	Sine wave, 10 ms Without reverse voltage	25	31250	A²s
l² t			180	20000	A²s
VF	Forward voltage	On-state current = 520A	180	1.53	V
V F(TO)	Threshold voltage		180	0.85	V
r _F	Forward slope resistance	/ /	180	1.3	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.35	°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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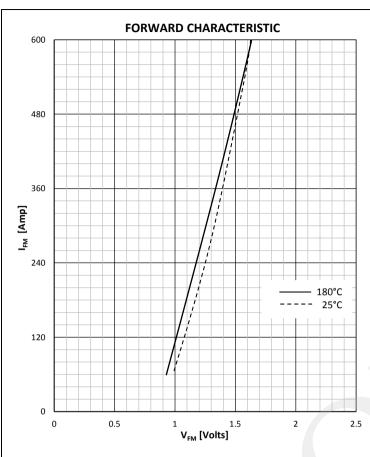


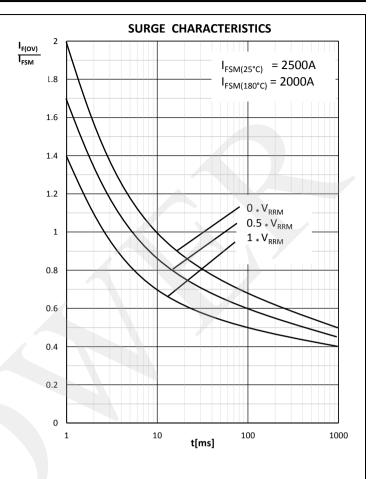


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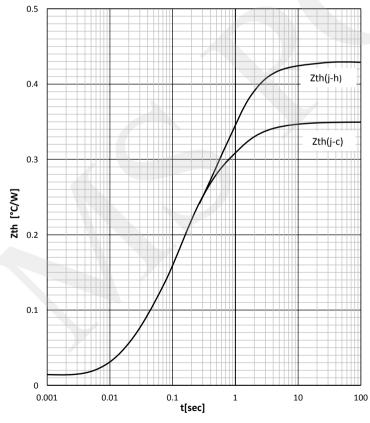
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TRANSIENT THERMAL IMPEDANCE

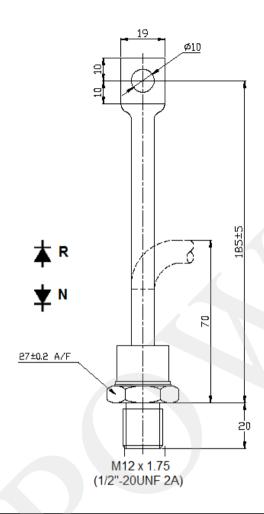


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Outline





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