MS D214





Key Parameters

 V_{RRM} = 1600V= 214A I_{F(AV)} = 4400AIFSM $V_{F(TO)}$ = 0.85 V $= 0.60 \text{m}\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Hermetic metal case with glass insulator
- Flat round base

Applications Power Supplies

- Uncontrolled Rectifiers
- Battery Chargers

Ordering Information

MS D	214	N	хх	F	В
Rectifier Diode	Current code	Polarity R= Base Anode N= Base Cathode	Voltage Code Code X 100 = V _{RRM}	F = Flat Base	Technology B = Solder Bond Technology
Order Code MS D214N16FB: 1600V V _{RRM} , Flat Base, Diode with base Cathode					

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Technical Information Power Rectifier Diodes

MS D214



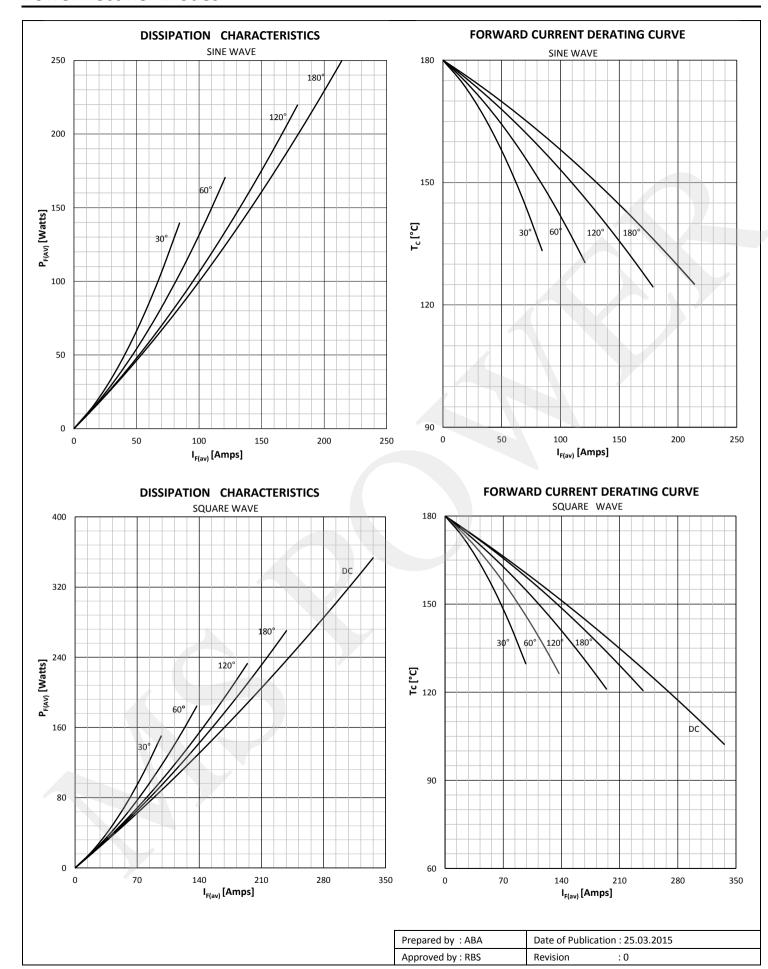
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	30	mA
CONDU	CTING		<u>.</u>		
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =125°C 180° sin ,50 Hz, T _c =130°C		214 200	А
I FRMS	RMS current	T _c =125°C		336	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	4400	Α
I FSM			180	4000	Α
	l² t	Sine wave, 10 ms Without reverse voltage	25	96800	A ² s
l² t			180	80000	A ² s
VF	Forward voltage	On-state current = 630A	180	1.25	V
V F(TO)	Threshold voltage		180	0.85	V
r _F	Forward slope resistance		180	0.60	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.22	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.05	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			13 - 14	NM
W	Weight (Approx.)			160	gm

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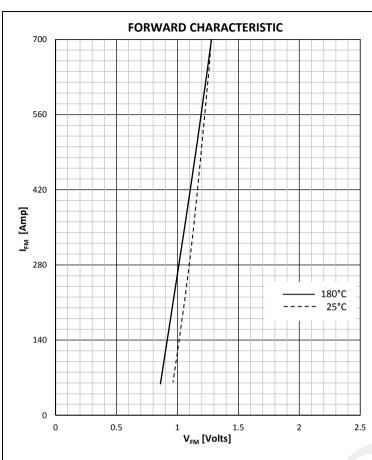


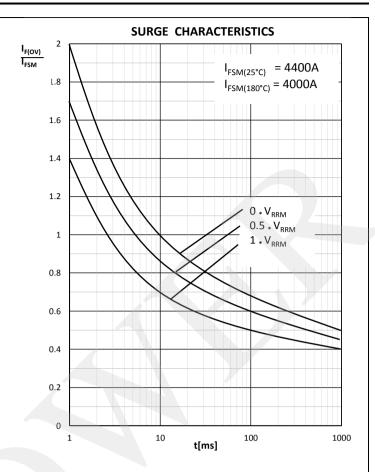
Technical Information

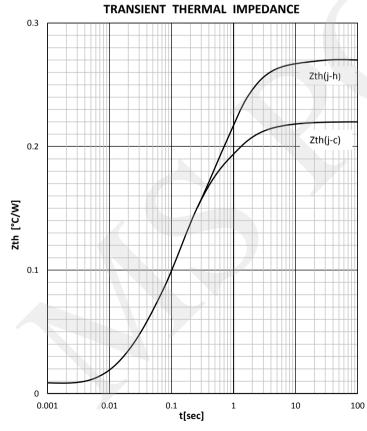
Power Rectifier Diodes

MS D214







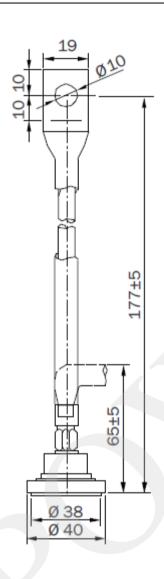


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