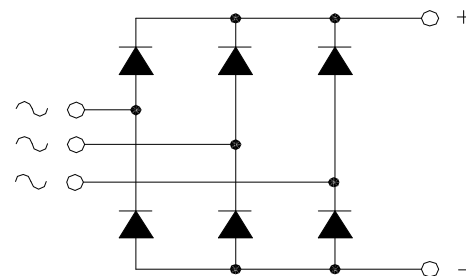


MTS161.16SS5FIX6

POWER RECTIFIER BRIDGE



Output Current **160÷200A**
V_{RRM}/V_{DRM} **1600 V**

Features

- Full blocking capability over wide temperature range
- Heat transfer through isolated metal base plate
- Hard soldered joints for high reliability

Applications

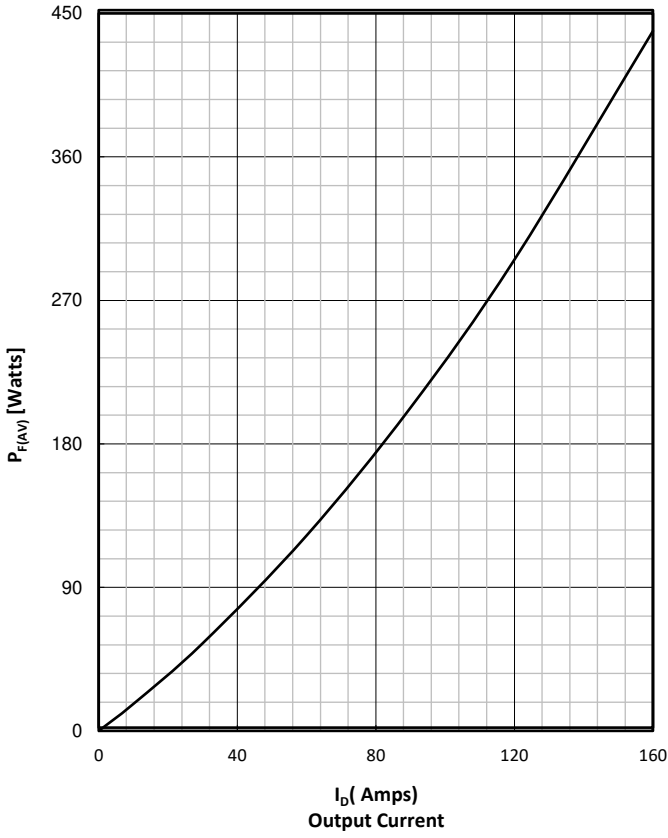
- Power Supplies
- Uncontrolled Rectifiers
- Field supply for DC motors

Key Parameters

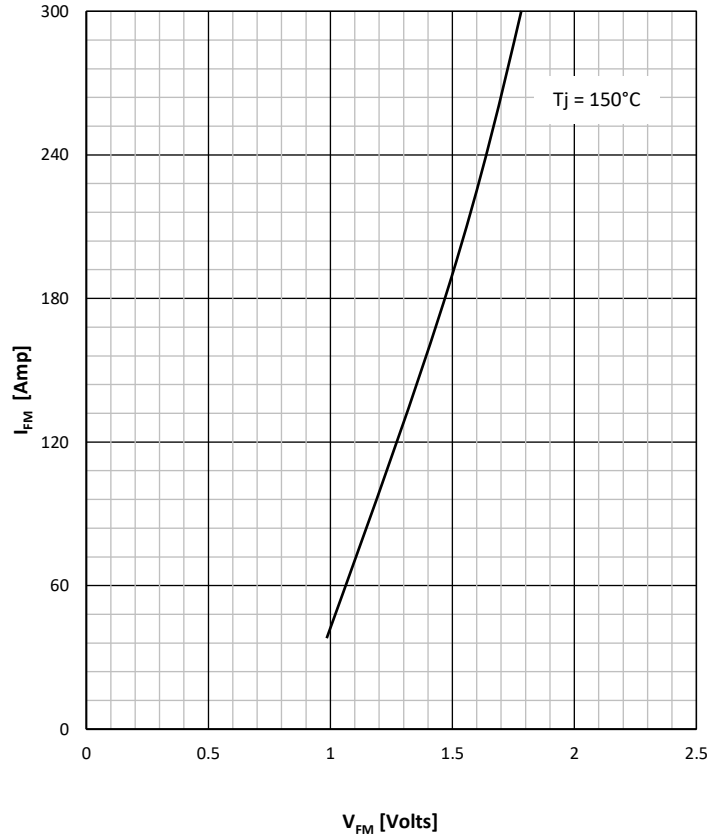
V_{RRM} = 1600V
I_{D(AV)} = 200A
I_{FSM} = 1600A
V_{F(TO)} = 0.81V
r_F = 3.52mΩ

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	800 - 1600	V
V _{RSM}	Non-repetitive peak reverse voltage		150	900 - 1700	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	150	10	mA
CONDUCTING					
I _{D(AV)}	DC output current	T _c =85°C T _c =60°C		160 200	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	1600	A
			150	1430	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25	12800	A ² s
			150	10224	A ² s
V _F	Forward voltage	On-state current = 200A	25	1.49	V
V _{F(TO)}	Threshold voltage		150	0.81	V
r _F	Forward slope resistance		150	3.52	mΩ
MOUNTING					
R _{th(j-c)}	Thermal impedance, DC	Junction to case, per arm per bridge		0.73 0.12	°C/W
R _{th(c-h)}	Thermal impedance	Case to heatsink, per bridge		0.03	°C/W
T _j	Max. junction temperature			150	°C
T _{stg}	Storage temperature			-40 ... 150	°C
V _{ISOL}	Insulation test voltage, RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			4 ± 15%	Nm
W	Weight (Approx.)			210	gm

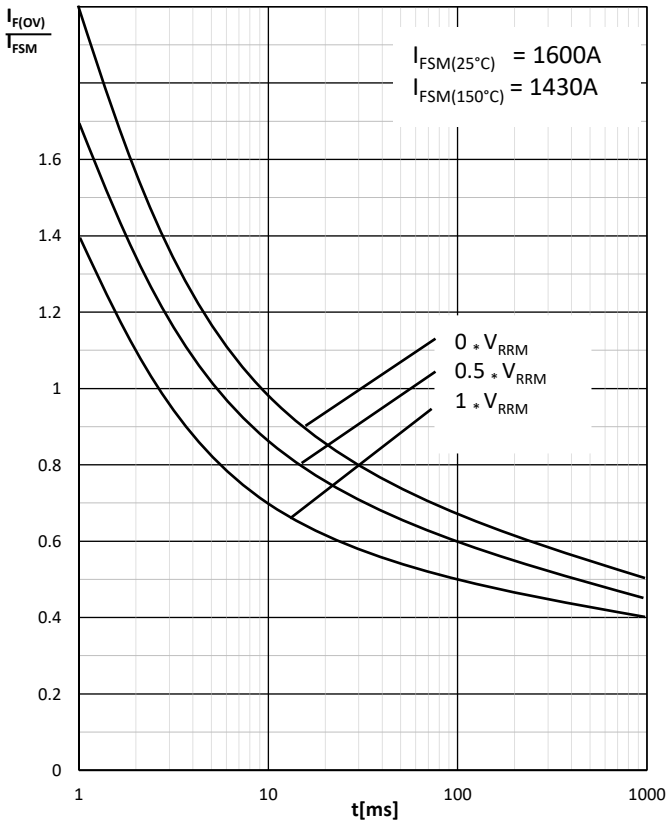
POWER DISSIPATION Vs OUTPUT CURRENT



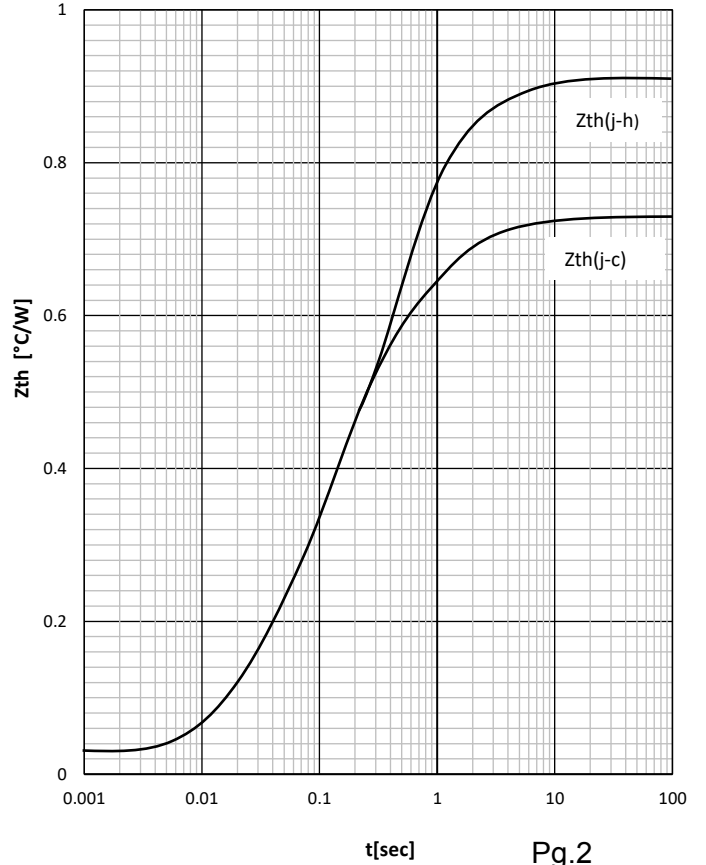
ON -STATE CHARACTERISTIC OF A DIODE ARM



SURGE CHARACTERISTICS



TRANSIENT THERMAL IMPEDANCE, PER ARM



DIMENSIONS WITHOUT OPTIONAL BARRIERS in millimeters (inches)

