



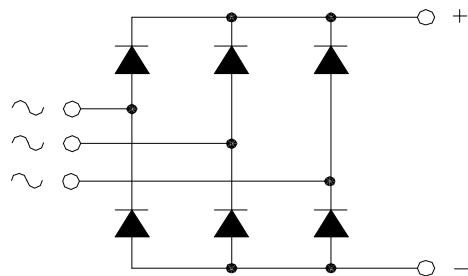
SCOMES

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MTS131.16SS5FIX6 POWER RECTIFIER BRIDGE

Output Current 130÷160 A

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

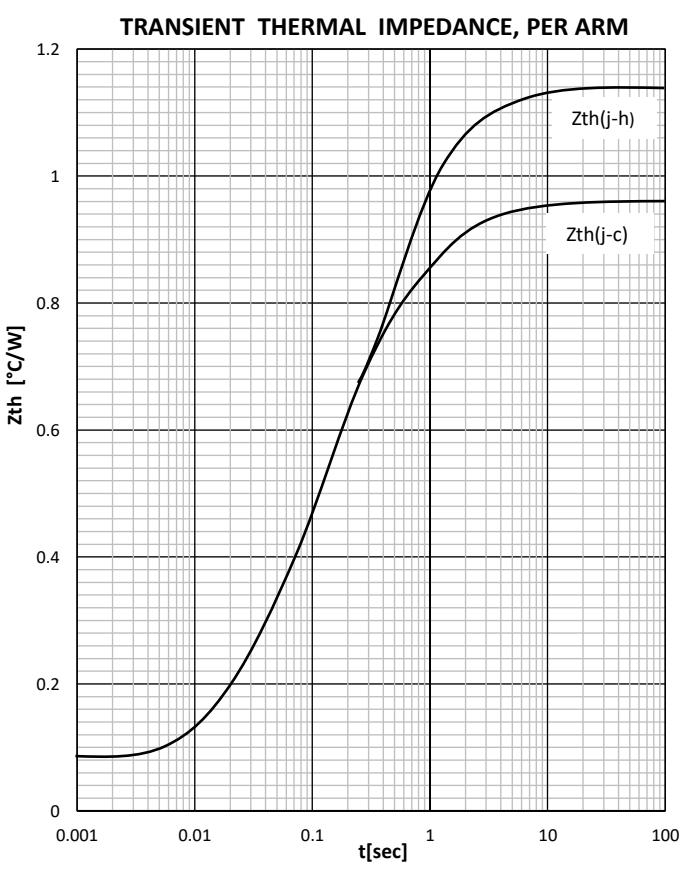
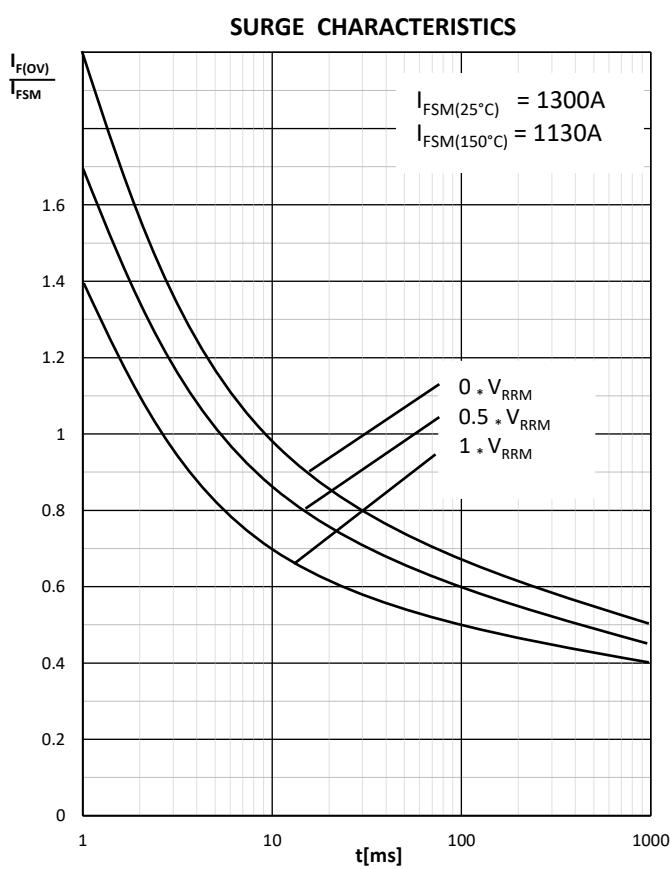
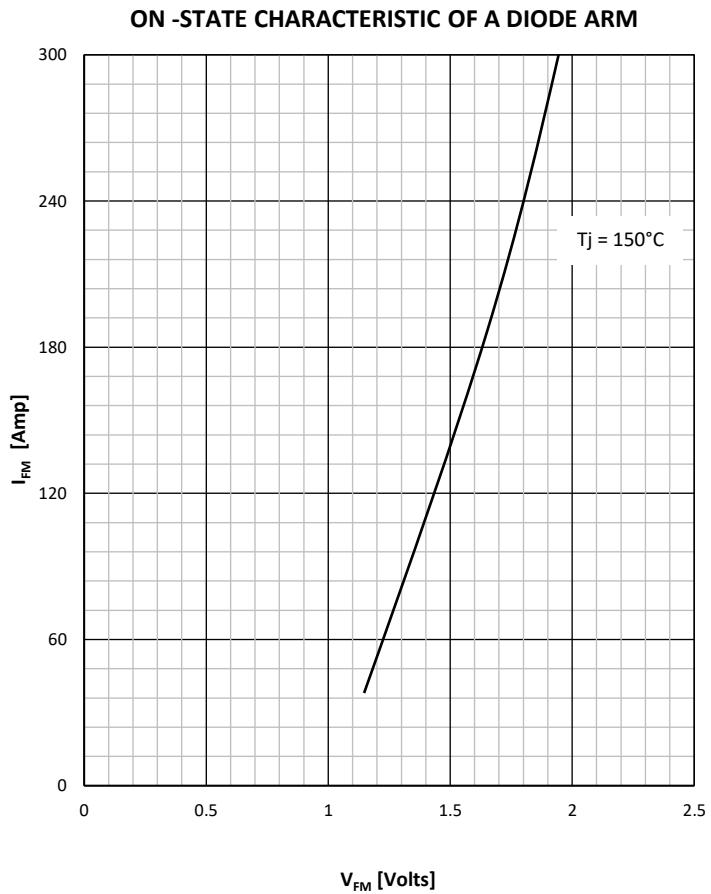
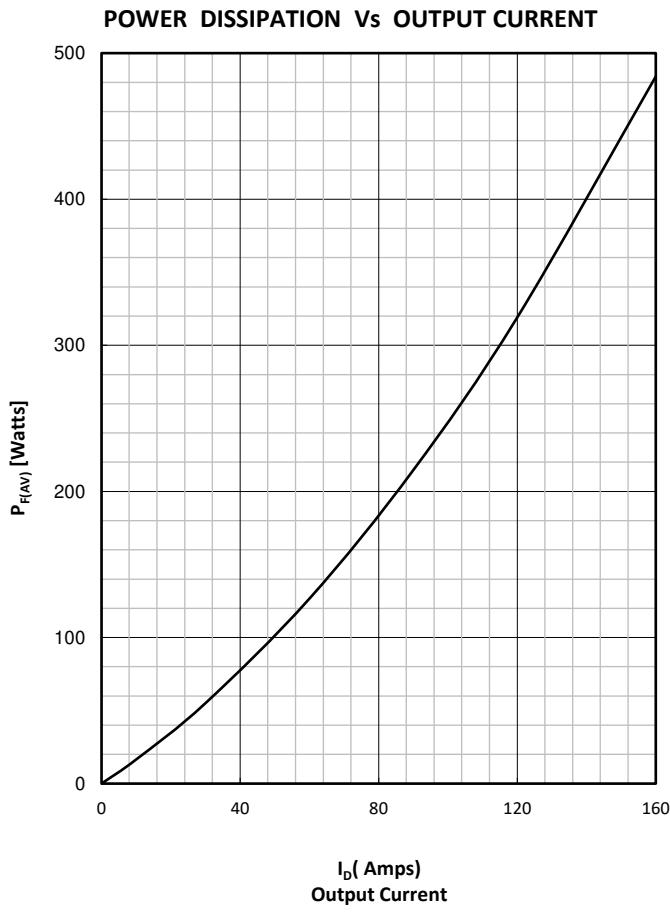
Key Parameters

V _{RRM}	= 1600V
I _{D(AV)}	= 160A
I _{FSM}	= 1300A
V _{F(TO)}	= 0.78V
r _F	= 4.59mΩ

Applications

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

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 =62°C		130 160	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25 150	1300 1130	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25 150	8450 6384	A ² s
V _F	Forward voltage	On-state current = 200A	25	1.63	V
V _{F(TO)}	Threshold voltage		150	0.78	V
r _F	Forward slope resistance		150	4.59	mΩ
MOUNTING					
R _{th(j-c)}	Thermal impedance, DC	Junction to case, per arm per bridge		0.96 0.16	°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



DIMENSIONS WITHOUT OPTIONAL BARRIERS in millimeters (inches)
