MS DF1495





Key Parameters

= 2000 = 1495A 22.5kA V_{RRM} I_{F(AV)} = 22.5kAIFSM $V_{F(TO)}$ = 1.15V $= 0.266 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Fast recovery characteristics
- Hermetically sealed ceramic package
- High case non-rupture current

Applications ■ Power Supplies

- Uncontrolled Rectifiers
- Freewheeling / Snubber
- Induction Heating / Melting

Ordering Information

MS DF	1495	C	ХX
Fast Recovery Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DF1495C25 : 2500V V _{RRM} , Fast recovery capsule Diode			

Prepared by : ABA	Date of Publication : 25.03.2015	
Approved by : RBS	Revision	:0

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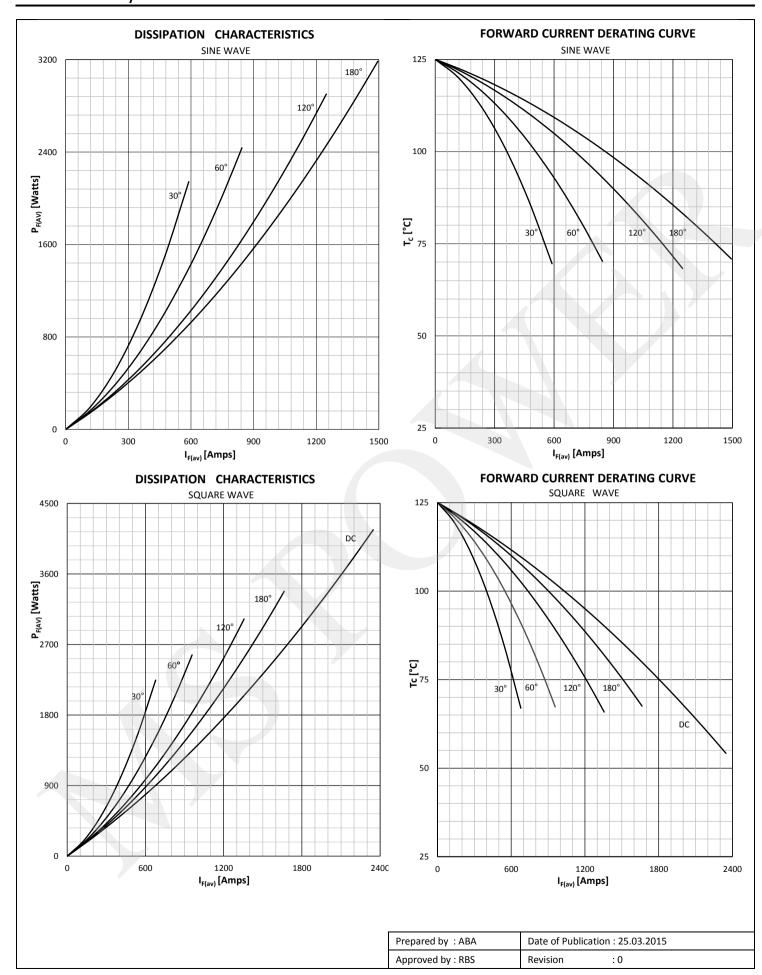


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1600 - 2500	V
V RSM	Non-repetitive peak reverse voltage		125	1700 - 2600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	90	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T _c =70°C , double side cooled		1495	Α
I FRMS	RMS current			2347	А
1	0	Sine wave, 10 ms	25	22500	Α
I FSM	Surge forward current	Without reverse voltage	125	21500	Α
	I² t	Sine wave, 10 ms	25	2531 x 10 ³	A ² s
l² t		Without reverse voltage	125	2311 x 10 ³	A ² s
VF	Forward voltage	On-state current = 3000A	125	1.95	V
V F(TO)	Threshold voltage		125	1.15	V
r _F	Forward slope resistance		125	0.266	mΩ
SWITCH	ING				
Q _{rr}	Recovered Charge (typical)		125	815	μC
I _{rm}	Reverse recovery current (typical)	I_{FM} =1000A, -di _F /dt = 100A/μs, V _r = 50V, t _p =1000 μs,50% chord.	125	140	Α
T _{rr}	Reverse recovery time, 50%chord (typical)	t _p =1000 μs,50% cnord.	125	3.9	μs
MOUNT	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.017	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.005	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping force			20 - 24	NM
W	Weight (Approx.)			500	gm

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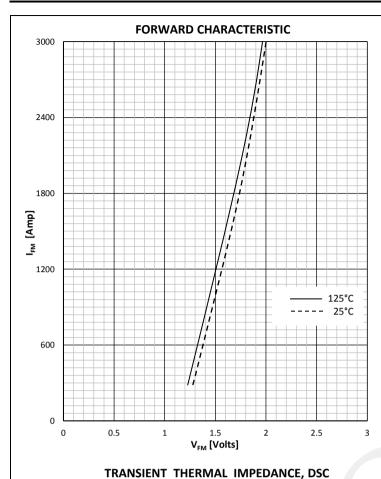
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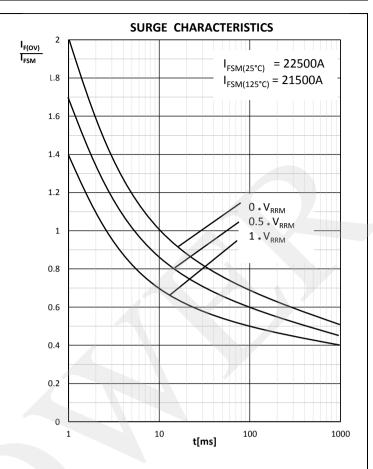


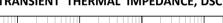


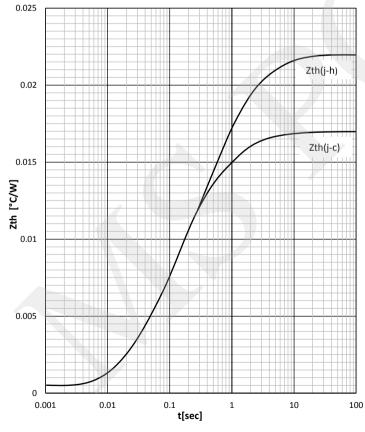
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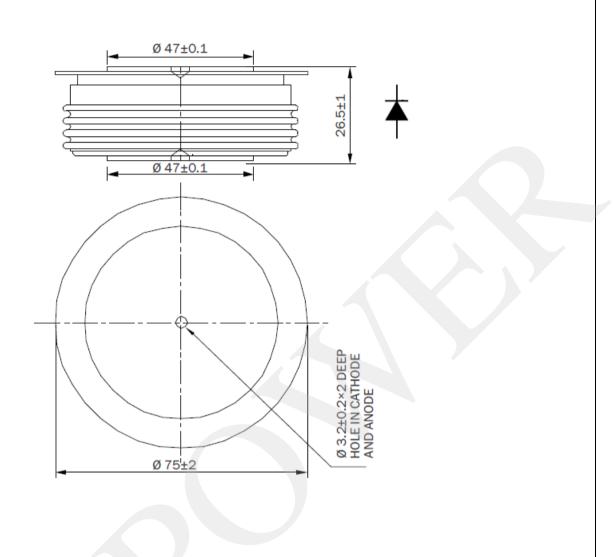


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