



Key Parameters

V_{RRM}	= 2600V
$I_{F(AV)}$	= 601A
I_{FSM}	= 30000A
$V_{F(TO)}$	= 0.914V
r_F	= 0.145m Ω

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium nitride ceramic isolated metal base plate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Field supply for DC motors
- Battery Chargers
- UPS

Ordering Information

MS	DD	601	K	26
Fixed code	DD- Diode- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V_{RRM}
Order Code MS DD601K26 : 2600V V_{RRM} , Diode-Diode Module				

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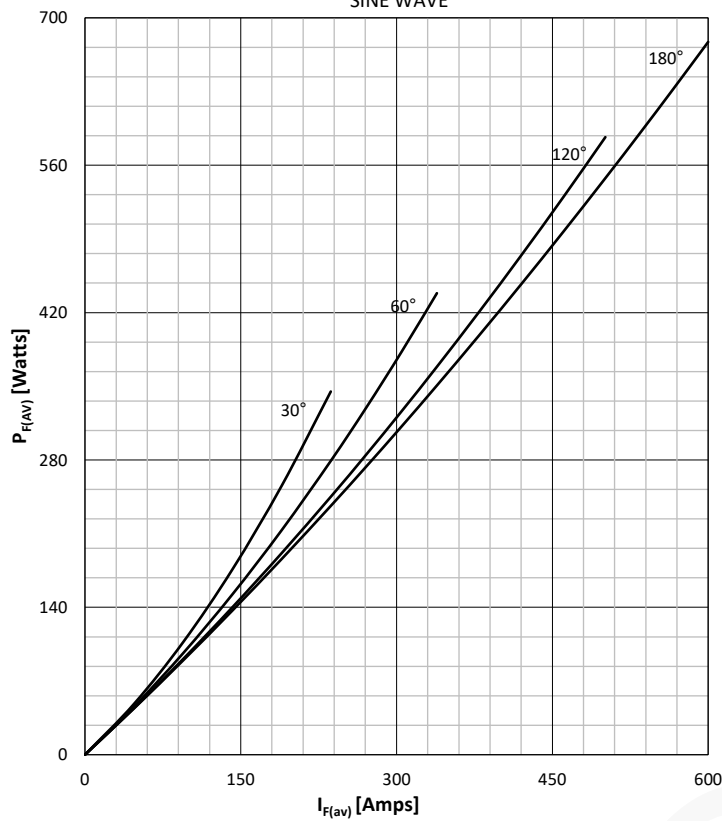
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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	800 - 2600	V
V _{RSM}	Non-repetitive peak reverse voltage		150	900 - 2700	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	150	40	mA
CONDUCTING					
I _{F (AV)}	Mean forward current	180° sin ,50 Hz, T _c =106°C		601	A
I _{FRMS}	RMS current	T _c =106°C		942	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	30000	A
			150	29000	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25	4500 x 10 ³	A ² s
			150	4205 x 10 ³	A ² s
V _F	Forward voltage	On-state current = 1500A	25	1.18	V
V _{F(TO)}	Threshold voltage		150	0.914	V
r _F	Forward slope resistance		150	0.145	mΩ
MOUNTING					
R _{th(j-c)}	Thermal impedance, sin 180°	Junction to case, per arm per module		0.0650 0.0325	°C/W
R _{th(c-h)}	Thermal impedance	Case to heatsink, per arm per module		0.02 0.01	°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		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			1480	gm
	File No.			E505556	
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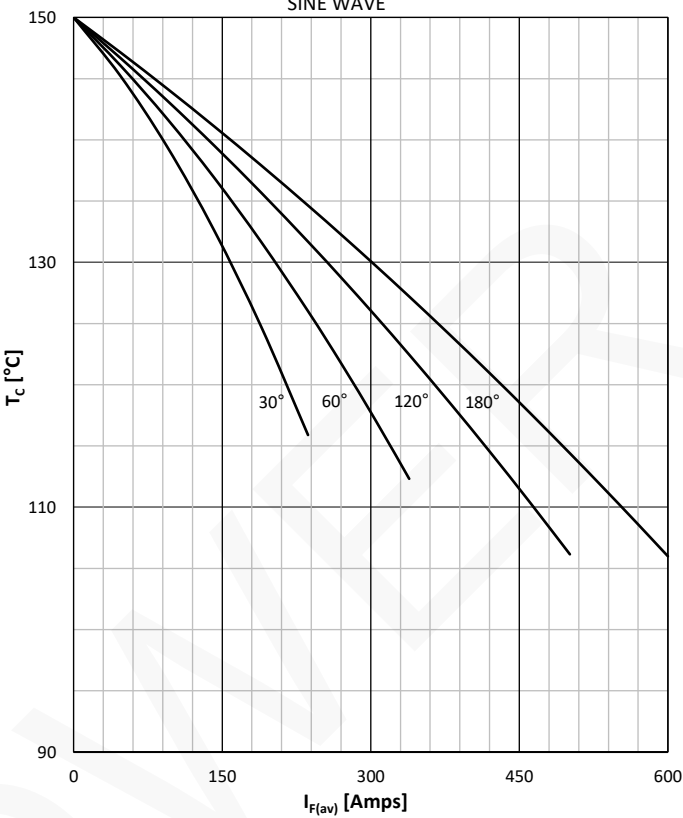
DISSIPATION CHARACTERISTICS

SINE WAVE



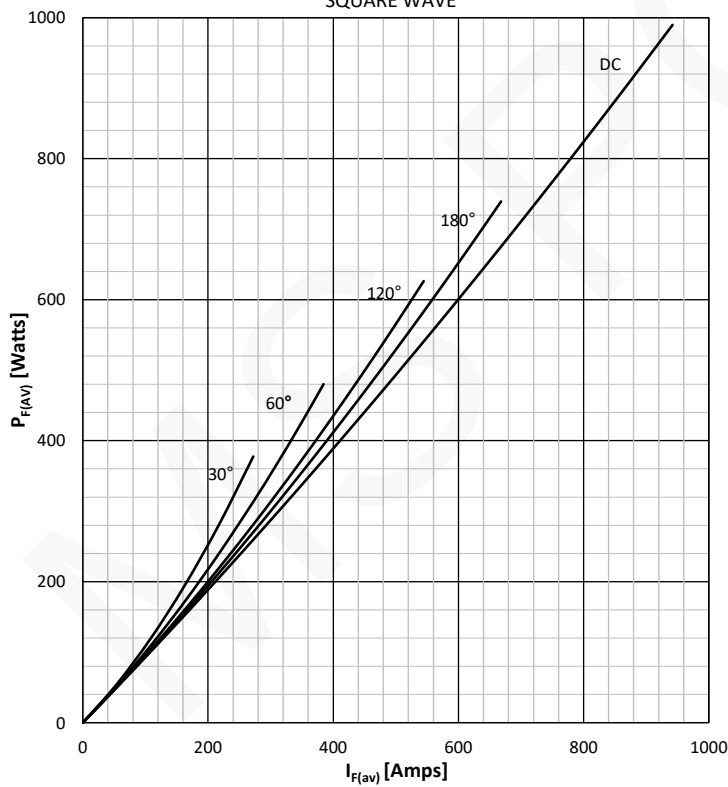
FORWARD CURRENT DERATING CURVE

SINE WAVE



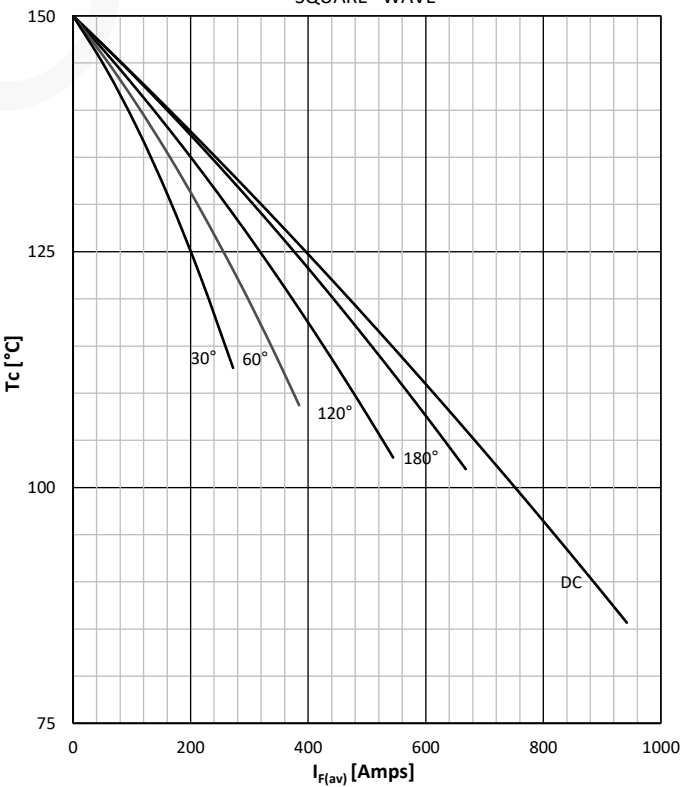
DISSIPATION CHARACTERISTICS

SQUARE WAVE



FORWARD CURRENT DERATING CURVE

SQUARE WAVE



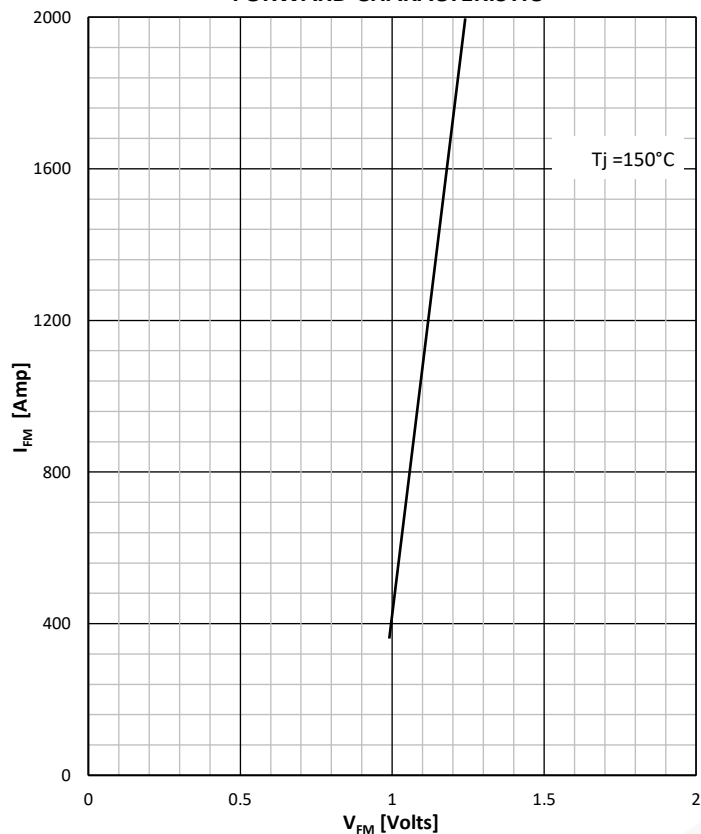
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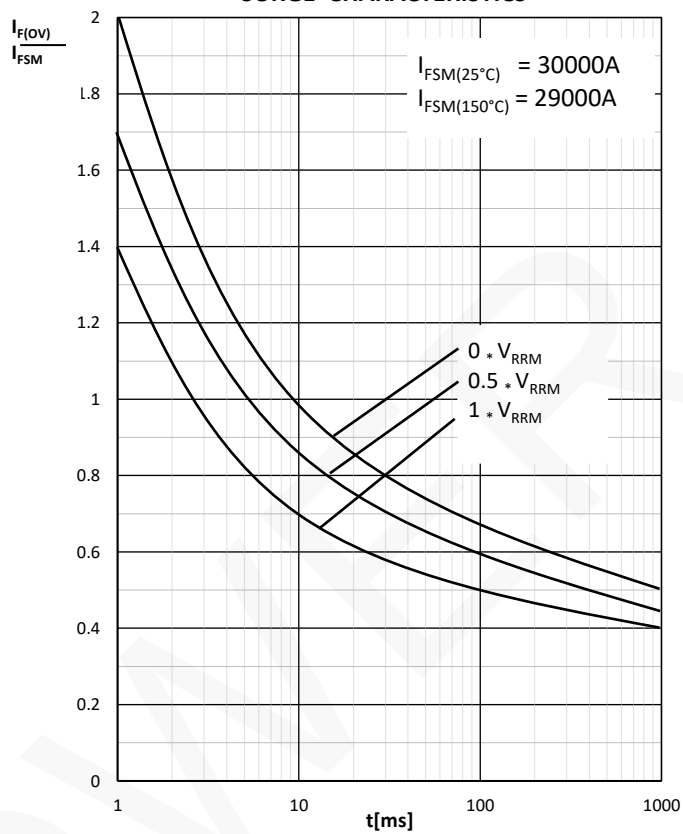
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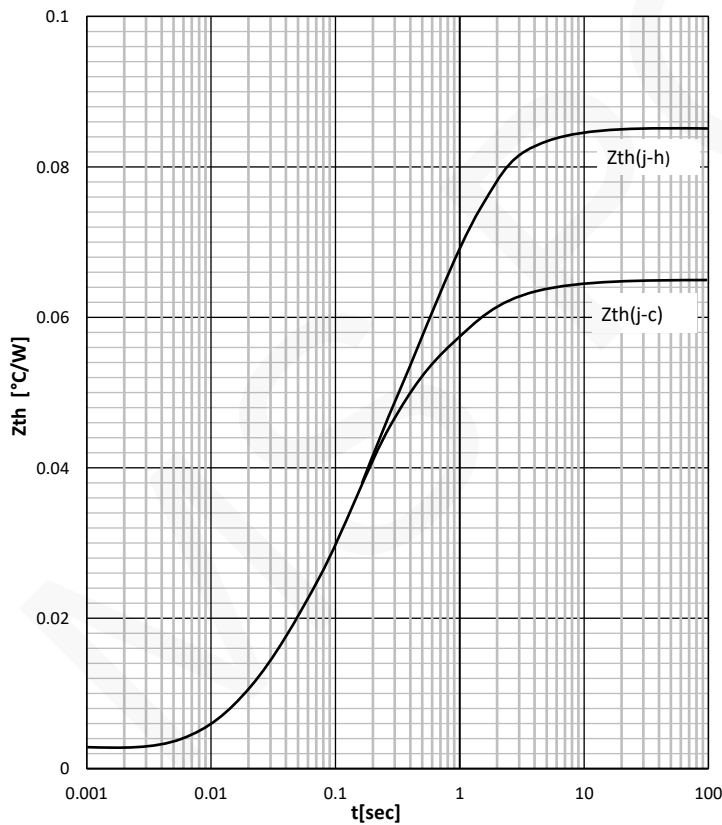
FORWARD CHARACTERISTIC



SURGE CHARACTERISTICS

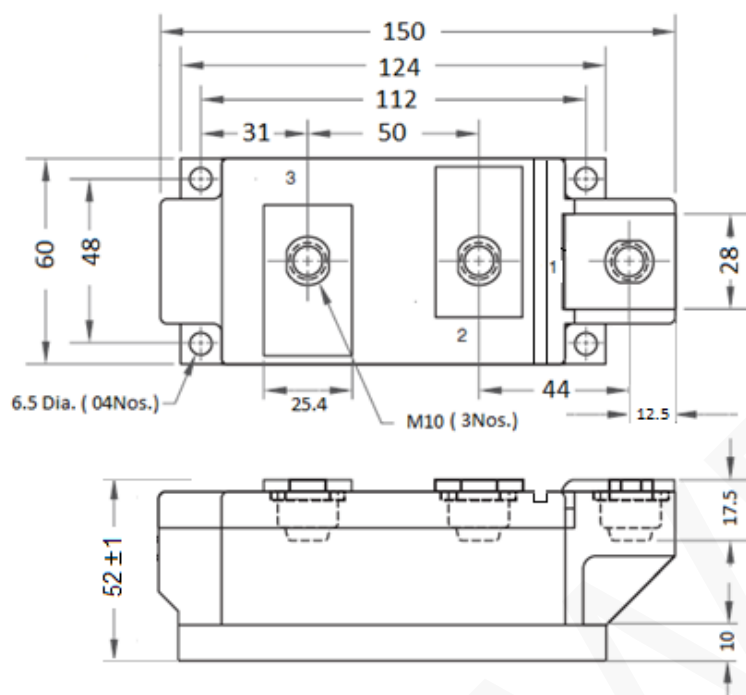


TRANSIENT THERMAL IMPEDANCE

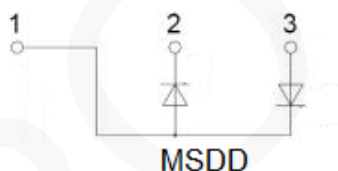


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Outline



Note : All dimensions are in mm.
Tolerance : $\pm 0.5\text{mm}$



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