MS D4780





Key Parameters

 V_{RRM} = 3200 = 4780A = 64KA = 3200VI_{F(AV)} IFSM $V_{F(TO)}$ = 0.786 V $= 0.0997 m\Omega$ ГF

Features

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

ApplicationsTraction Rectifiers

- **Uncontrolled Rectifiers**
- Welding
- Induction Heating / Melting

Ordering Information

MS D	4780	С	ХX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D4780C32 : 3200V VRRM, Capsule Diode			

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Technical Information Power Rectifier Diodes

MS D4780



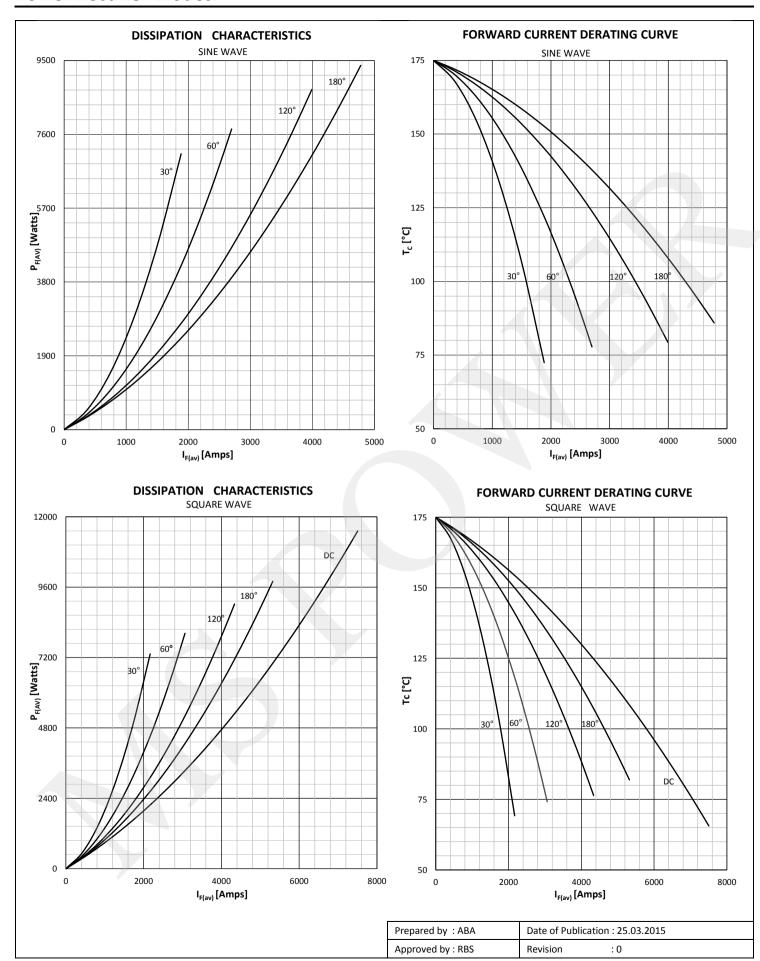
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	2200 - 3200	V
V RSM	Non-repetitive peak reverse voltage		175	2300 - 3300	V
I RRM	Repetitive peak reverse current	V= V RRM	175	125	mA
CONDU	CTING			·	
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C, double side cooled 180° sin,50 Hz, T_c =94°C, double side cooled		4780 4500	А
I FRMS	RMS current	T _c =85°C, double side cooled		7505	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	64000	A
I FSM			175	62500	А
		Sine wave, 10 ms	25	20480 x 10 ³	A²s
l² t	l² t	Without reverse voltage	175	19531 x 10 ³	A²s
VF	Forward voltage	On-state current = 2000A	175	1.0	V
V F(TO)	Threshold voltage		175	0.786	V
r _F	Forward slope resistance		175	0.0997	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0095	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.002	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature		-	-40 175	°C
М	Clamping force			26 - 44	KN
W	Weight (Approx.)			1130	gm

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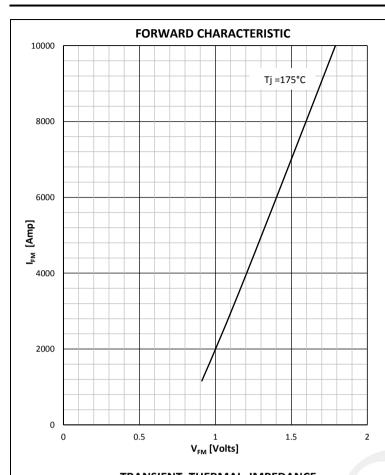


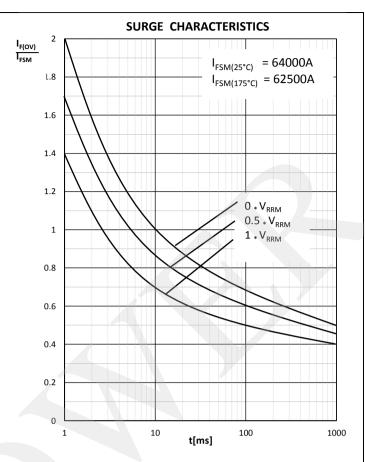
Technical Information

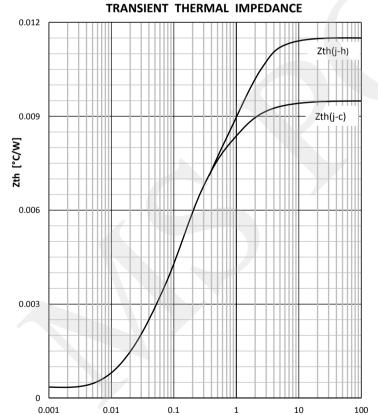
Power Rectifier Diodes

MS D4780









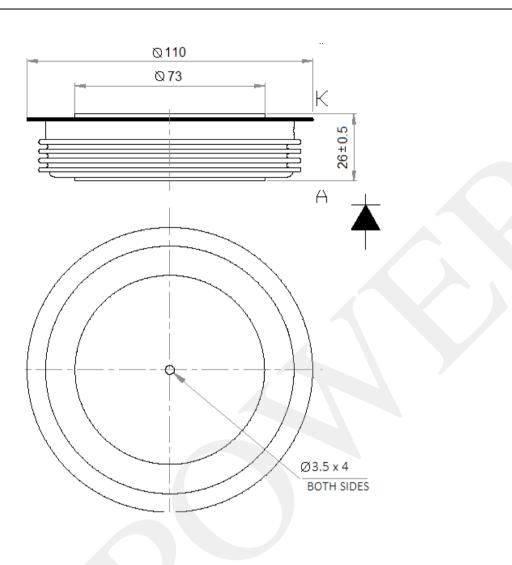
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