

Three Phase Silicon Bridge Rectifier

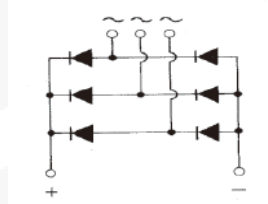
$V_{RRM} = 800\text{ V} - 1600\text{ V}$

$I_F = 100\text{ A}$

Features

- High Surge Capability
- Types up to 1600 V V_{RRM}
- Not ESD Sensitive

Three Phase Package



Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

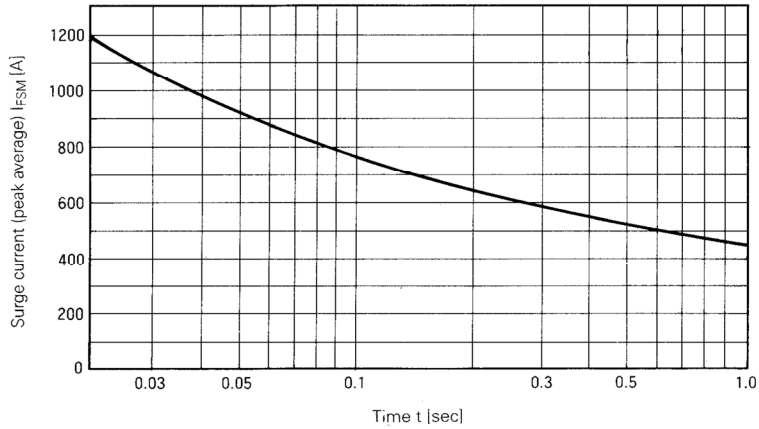
Parameter	Symbol	Conditions	M3P100A-80	M3P100A-160	Unit
Repetitive peak reverse voltage	V_{RRM}		800	1600	V
Non-repetitive peak reverse voltage	V_{RSM}		880	1700	V
Continuous forward current	I_F	$T_C \leq 103\text{ }^\circ\text{C}$	100	100	A
Surge non-repetitive forward current, Half Sine Wave	I_{FSM}	$T_C = 25\text{ }^\circ\text{C}$, $t_p = 8.3\text{ ms}$	1200	1200	A
I^2t	I^2t		6000	6000	A^2S
Operating temperature	T_j		-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	$^\circ\text{C}$

Electrical characteristics, at $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

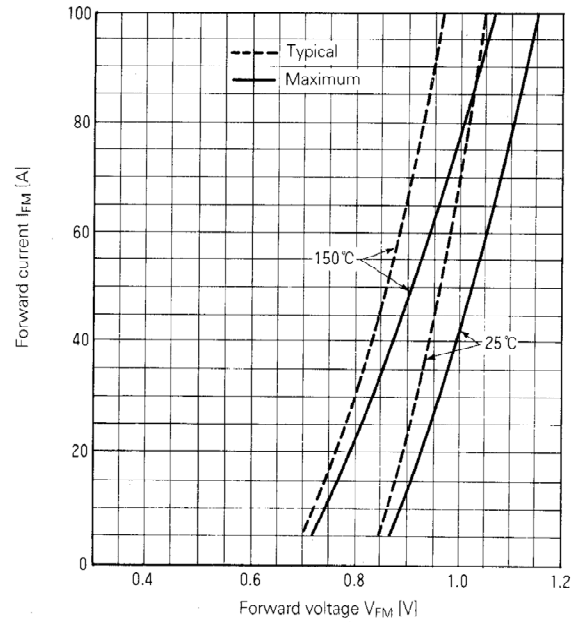
Parameter	Symbol	Conditions	M3P100A-80	M3P100A-160	Unit
Diode forward voltage	V_F	$I_F = 100\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	1.15	1.15	V
Reverse current		$V_R = V_{RRM}$, $T_j = 150\text{ }^\circ\text{C}$	10	10	mA

Thermal characteristics

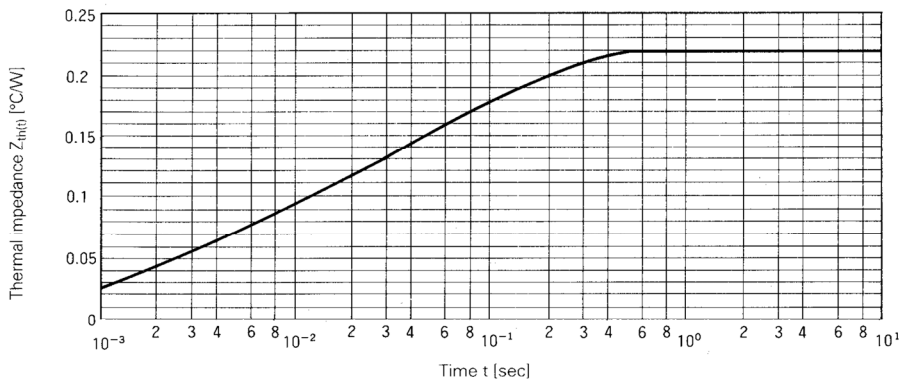
Thermal resistance, junction - case	R_{thJC}		0.22	0.22	$^\circ\text{C/W}$
-------------------------------------	------------	--	------	------	--------------------



Surge Current

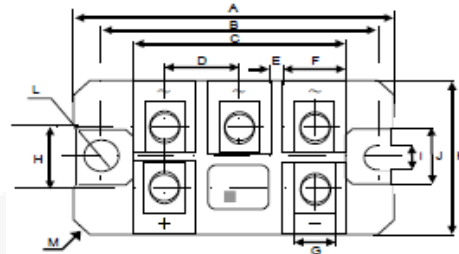


Forward Characteristics

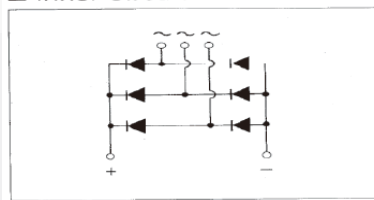


Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



■ Inner Circuit Schematic



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.15	---	80	---
B	2.60	---	66	---
C	2.01	---	51	---
D	0.71	---	18	---
E	0.16	---	4	---
F	0.57	---	14.5	---
G	0.40	---	10.2	---
H	0.63	---	16	---
I	0.26	---	6.7	---
J	0.55	---	14	---
K	1.57	---	40	---
L	φ 0.26	---	φ 6.7	---
M	4-C5			
N	---	0.90 MAX	---	23 MAX
O	---	1.06 MAX	---	27 MAX
P	---	1.14 MAX	---	29 MAX

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Rectifiers](#) category:

Click to view products by [GeneSiC Semiconductor](#) manufacturer:

Other Similar products are found below :

[70HFR40](#) [RL252-TP](#) [150KR30A](#) [1N5397](#) [SCF5000](#) [1N4002G](#) [1N4005-TR](#) [JANS1N6640US](#) [481235F](#) [RRE02VS6SGTR](#) [067907F](#) [MS306](#)
[70HF40](#) [T85HFL60S02](#) [VS-88-4031](#) [VS-66-9903](#) [US2JFL-TP](#) [A1N5404G-G](#) [ACGRA4007-HF](#) [ACGRB207-HF](#) [CLH03\(TE16L,Q\)](#)
[ACGRC307-HF](#) [ACEFC304-HF](#) [85HFR60](#) [40HFR60](#) [VS-88-7272PBF](#) [70HF120](#) [85HFR80](#) [D126A45C](#) [SCF7500](#) [D251N08B](#) [SCHJ22.5K](#)
[SM100](#) [SCPA2](#) [SCH10000](#) [SDHD5K](#) [VS-12FL100S10](#) [ACGRA4001-HF](#) [D1821SH45T PR](#) [D1251S45T](#) [SKN300/16](#) [SKN 5/08](#) [TSD3G](#)
[SET130312](#) [MSE07PBHM3/89A](#) [UES1106](#) [NTE6010](#) [JANTX1N5196](#) [SCHS15000](#) [BYV32-200M](#)