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MBR3030PT-MBR3060PT

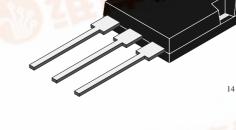
Vishay Lite-On Power Semiconductor

30A Schottky Barrier Rectifier

Features

- Schottky barrier chip
- Guard ring die constuction for transient protection
- Low power loss, high efficiency
- High current capability and low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- Plastic material UL Recognition flammability classification 94V–0

Absolute Maximum Ratings



14 414

1 = 23 0					
Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage	100 001	MBR3030PT	V _{RRM}	30	V
=Working peak reverse voltage	Man	MBR3035PT	=V _{RWM}	35	V
=DC Blocking voltage		MBR3040PT	=V _R	40	V
		MBR3045PT		45	V
		MBR3050PT		50	V
N/P		MBR3060PT		60	V
Peak forward surge current			I _{FSM}	200	А
Average forward current	T _C =125°C		IFAV	30	А
Junction and storage temperature range		102	T _i =T _{stq}	-65+150	°C

Electrical Characteristics

 $T_j = 25^{\circ}C$

1 = 20 0							
Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =30A, T _C =25°C	MBR3030PT MBR3045PT	V _F			0.76	V
	I _F =20A, T _C =125°C		V _F			0.6	V
	I _F =30A, T _C =25°C	MBR3050PT -MBR3060PT	V _F			0.8	V
	I _F =20A, T _C =125°C		V _F		-	0.65	V
Reverse current	T _C =25°C	MBR3030PT –MBR3045PT	I _R	-101	45	1.0	mA
	T _C =125°C		IR	Re	14.0	60	mA
	T _C =25°C	MBR3050PT -MBR3060PT	I _R	44.4		5.0	mA
	T _C =125°C		I _R			100	mA
Diode capacitance	V _R =4V, f=1MHz		CD		700		pF
Thermal resistance junction to case	T _L =const.	MBR3030PT -MBR3045PT	R _{thJC}		1.4		K/W
	T _L =const.	MBR3050PT -MBR3060PT	R _{thJC}		2.0		K/W
Voltage rate of change (Rated V _R)			dV/dt			10000	V/µs

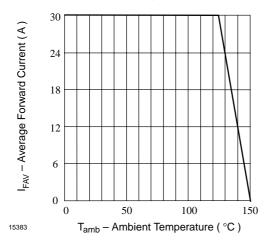


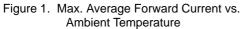
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Characteristics ($T_j = 25^{\circ}C$ unless otherwise specified)





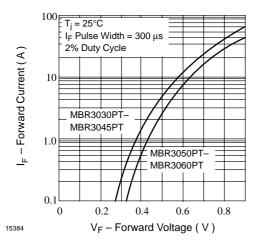


Figure 2. Typ. Forward Current vs. Forward Voltage

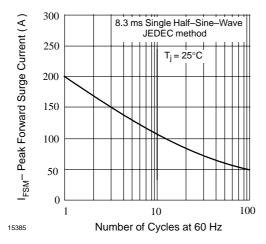


Figure 3. Max. Peak Forward Surge Current vs. Number of Cycles

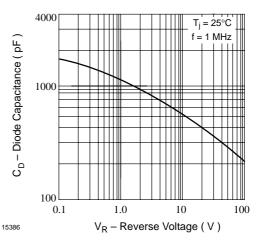


Figure 4. Typ. Diode Capacitance vs. Reverse Voltage

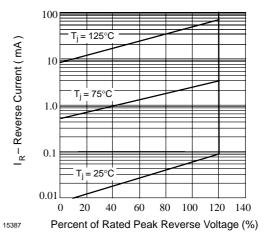
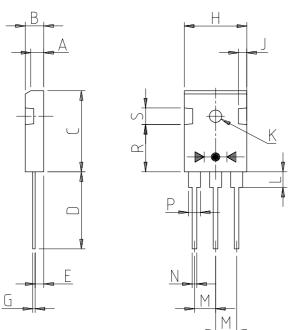


Figure 5. Typ. Reverse Current vs. Percent of Rated Peak Reverse Voltage



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Dimensions in mm



	TO-3P				
Dim	Min	Max			
Α	3.20	3.50			
В	4.59	5.16			
C	20.80	21.30			
D	19.70	20.20			
E	2.10	2.40			
G	0.51	0.76			
Н	15.90	16.40			
J	1.70	2.70			
K	Ø3.10	Ø3.30			
L	3.50	4.51			
М	5.20	5.70			
Ν	1.12	1.22			
Р	2.90	3.30			
R	11.70	12.80			
S	S 4.30 Typical				
A	All Dimensions in mm				

technical drawings according to DIN specifications

14470

Case: molded plastic Polarity: as marked on body Approx. weight: 5.6 grams Mounting position: any Marking: type number

MBR3030PT-MBR3060PT

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Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

- 1. Meet all present and future national and international statutory requirements.
- 2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

- 1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
- 2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
- 3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Telefunken products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Telefunken against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

> Vishay Semiconductor GmbH, P.O.B. 3535, D-74025 Heilbronn, Germany Telephone: 49 (0)7131 67 2831, Fax number: 49 (0)7131 67 2423