



VISHAY INTERTECHNOLOGY, INC.



## HIGH-PERFORMANCE SCHOTTKY DIODES

Generation 5.0 (Trench Technology)

Generation 2.x and 3.x (Planar Technology)

C-16	SMB
D-PAK	SMC
D2-PAK	SOD-123
D61-8	SOD-323
D61-8-SL	SOT-223
D61-8-SM	SOT-23
DO-204AL	SOT-323
DO-204AR	TO-220
I-PAK	TO-247
PowerTab™	TO-262
SMA	

## SEMICONDUCTORS

### RECTIFIERS

Schottky (single, dual)  
 Standard, Fast, and Ultra-Fast Recovery  
 (single, dual)  
 Bridge  
 Superrectifier®  
 Sinterglass Avalanche Diodes

### HIGH-POWER DIODES AND THYRISTORS

High-Power Fast-Recovery Diodes  
 Phase-Control Thyristors  
 Fast Thyristors

### SMALL-SIGNAL DIODES

Schottky and Switching (single, dual)  
 Tuner/Capacitance (single, dual)  
 Bandswitching  
 PIN

### ZENER AND SUPPRESSOR DIODES

Zener (single, dual)  
 TVS (TRANSZORB®, Automotive, ESD, Arrays)

### FETs

Low-Voltage TrenchFET® Power MOSFETs  
 High-Voltage TrenchFET® Power MOSFETs  
 High-Voltage Planar MOSFETs  
 JFETs

### RF TRANSISTORS

Bipolar Transistors (AF and RF)  
 Dual Gate MOSFETs  
 MOSMICs®

### OPTOELECTRONICS

IR Emitters and Detectors,  
 and IR Receiver Modules  
 Optocouplers and Solid-State Relays  
 Optical Sensors  
 LEDs and 7-Segment Displays  
 Infrared Data Transceiver Modules  
 Custom Products

### ICs

Power ICs  
 Analog Switches  
 RF Transceivers and Receiver Modules  
 ICs for Optoelectronics

### MODULES

Power Modules (contain power diodes,  
 thyristors, MOSFETs, IGBTs)  
 DC/DC Converters

## PASSIVE COMPONENTS

### RESISTIVE PRODUCTS

Foil Resistors  
 Film Resistors  
 Metal Film Resistors  
 Thin Film Resistors  
 Thick Film Resistors  
 Metal Oxide Film Resistors  
 Carbon Film Resistors  
 Wirewound Resistors  
 Power Metal Strip® Resistors  
 Chip Fuses  
 Variable Resistors  
 Cermet Variable Resistors  
 Wirewound Variable Resistors  
 Conductive Plastic Variable Resistors  
 Networks/Arrays  
 Non-Linear Resistors  
 NTC Thermistors  
 PTC Thermistors  
 Varistors

### MAGNETICS

Inductors  
 Transformers

### CAPACITORS

Tantalum Capacitors  
 Molded Chip Tantalum Capacitors  
 Coated Chip Tantalum Capacitors  
 Solid Through-Hole Tantalum Capacitors  
 Wet Tantalum Capacitors  
 Ceramic Capacitors  
 Multilayer Chip Capacitors  
 Disc Capacitors  
 Film Capacitors  
 Power Capacitors  
 Heavy-Current Capacitors  
 Aluminum Capacitors  
 Silicon RF Capacitors

### STRAIN GAGE TRANSDUCERS AND STRESS ANALYSIS SYSTEMS

PhotoStress®  
 Strain Gages  
 Load Cells  
 Force Transducers  
 Instruments  
 Weighing Systems  
 Specialized Strain Gage Systems

# High-Performance Schottky Diodes

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## Table of Contents

<b>HPS GEN 5.0 (Trench Technology).....</b>	<b>4</b>
<b>HPS GEN 3.x (Planar Technology).....</b>	<b>5</b>
<b>HPS GEN 2.x (Planar Technology).....</b>	<b>7</b>

While Schottky rectifiers represent a small percentage of the total spectrum of available rectifier voltages and current ratings, they account for a large percentage of today's total rectifier usage. The reason for this is that they are the rectifier of choice for low-voltage switching power supply applications, with output voltages up to a few tens of volts, particularly at high switching frequencies.

The unique electrical characteristics of Schottky rectifiers set them apart from conventional p-n junction rectifiers in the following aspects:

- Lower forward voltage drop
- Lower blocking voltage
- Higher leakage current
- Virtual absence of reverse recovery charge

There are two fundamental characteristics of Schottky devices that make them winners over p-n junction rectifiers in low-voltage switching power supplies. The virtual absence of minority carrier reverse recovery results in the virtual absence of switching losses within the Schottky itself. Their lower forward voltage drop means lower rectification losses, better efficiency, and smaller heatsinks.

Perhaps more significantly, the problem of switching voltage transients and attendant oscillations is less severe for Schottkys than for p-n junction rectifiers. Snubbers are therefore smaller and less dissipative.

High-performance Schottky (HPS) rectifiers from Vishay are well known as leaders in terms of performance and reliability. While Vishay's Gen 2.0 and Gen 3.0 devices are recognized in the industry as state-of-the-art planar Schottky devices, Vishay also offers a new Gen 5.0 Schottky product family featuring submicrom trench technology for enhanced performance and 25 % improved efficiency vs. standard planar technology.

Vishay's HPS families represent the broadest Schottky portfolio in the market:

- $I_{F(AV)}$  from 0.2 A to 175 A
- $V_{RRM}$  from 15 V to 150 V
- More than 20 thru-hole and SMD packages available

Vishay offers AEC-Q101 automotive qualified Schottky rectifiers in the D-Pak, D2-Pak, and TO-262 packages.








## HPS GEN 5.0 (Trench Technology)

DEVICE	PACKAGE	CONFIGURATION	RoHS	$V_{RRM}$ (V)	$I_{F(AV)}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C
		<b>TO-220</b>					
8TT100	TO-220	Single	Y	100	8	175	0.58
MBR10T100	TO-220	Single	Y	100	10	175	0.68
15TT100	TO-220	Single	Y	100	15	175	0.67
16CTT100	TO-220	Com.Cath.	Y	100	16	175	0.69
20TT100	TO-220	Single	Y	100	20	175	0.67
MBR20T100CT	TO-220	Com.Cath.	Y	100	20	175	0.8
21TT100	TO-220	Single	Y	100	20	175	0.68
30CTT045	TO-220	Com.Cath.	Y	45	30	175	0.49
30CTT100	TO-220	Com.Cath.	Y	100	30	175	0.79
43CTT100	TO-220	Com.Cath.	Y	100	40	175	0.8
		<b>TO-247</b>					
30PT100	TO-247	Single	Y	100	30	175	0.64
30CPT100	TO-247	Com.Cath.	Y	100	30	175	0.79
60CPT045	TO-247	Com.Cath.	Y	100	60	175	0.49
63CPT100	TO-247	Com.Cath.	Y	100	60	175	0.76

For further information: <http://www.vishay.com/doc?49729> and <http://www.vishay.com/diodes/rectifiers/high-performance-gen-5/>

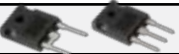



## HPS GEN 3.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	V <sub>RRM</sub> (V)	I <sub>FAV</sub> (A)	t <sub>JMAX</sub> (°C)	V <sub>F</sub> @ I <sub>F</sub> (V) @ 125°C	Leaded version available?
	<b>C-16</b>						
31DQ10G	C-16	Single	100	3.3	150	0.69 @ 3A	N
31DQ09G	C-16	Single	90	3.3	150	0.69 @ 3A	N
	<b>D2-PAK</b>						
8TQ100GSPBF	D2-PAK	Single	100	8	175	0.58	Y
16CTQ100GSPBF	D2-PAK	Com.Cath.	100	16	175	0.69	Y
MBRB20100CTGPBF	D2-PAK	Com.Cath.	100	20	150	0.85	Y
30CTQ100GSPBF	D2-PAK	Com.Cath.	100	30	175	0.82	Y
43CTQ100GSPBF	D2-PAK	Com.Cath.	100	40	175	0.81	Y
MBRB2090CTG	D2-PAK	Com.Cath.	90	20	150	0.85	only leaded version is available
8TQ080GSPBF	D2-PAK	Single	80	8	175	0.58	Y
16CTQ080GSPBF	D2-PAK	Com.Cath.	80	16	175	0.69	Y
MBRB2080CTG	D2-PAK	Com.Cath.	80	20	150	0.85	only leaded version is available
30CTQ080GSPBF	D2-PAK	Com.Cath.	80	30	175	0.82	Y
43CTQ080GSPBF	D2-PAK	Com.Cath.	80	40	175	0.81	Y
16CTQ060GSPBF	D2-PAK	Com.Cath.	60	16	175	0.69	Y
STPS30L30CGPBF	D2-PAK	Com.Cath.	30	30	150	0.5	Y
	<b>DO-204AR</b>						
50SQ100G	DO-204AR	Single	100	5	175	0.52	N
50SQ080G	DO-204AR	Single	80	5	175	0.52	N
50SQ060G	DO-204AR	Single	60	5	175	0.52	N
	<b>I-PAK</b>						
50UQ03GPBF	I-PAK	Single	30	5.5	150	0.39 @ 5A	N
	<b>SMC</b>						
30BQ100GPBF	SMC	Single	100	3	175	0.62	N
	<b>TO-220</b>						
8TQ100GPBF	TO-220	Single	100	8	175	0.58	Y
16CTQ100GPBF	TO-220	Com.Cath.	100	16	175	0.69	Y
MBR20100CTKPBF	TO-220	Com.Cath.	100	20	150	0.8	N
30CTQ100GPBF	TO-220	Com.Cath.	100	30	175	0.82	Y
63CTQ100GPBF	TO-220	Com.Cath.	100	60	175	0.83	Y
43CTQ100GPBF	TO-220	Com.Cath.	100	40	175	0.81	Y
MBR2090CTKPBF	TO-220	Com.Cath.	90	20	150	0.8	N
8TQ080GPBF	TO-220	Single	80	8	175	0.58	Y
16CTQ080GPBF	TO-220	Com.Cath.	80	16	175	0.69	Y
MBR2080CTKPBF	TO-220	Com.Cath.	80	20	150	0.8	N
30CTQ080GPBF	TO-220	Com.Cath.	80	30	175	0.82	Y
43CTQ080GPBF	TO-220	Com.Cath.	80	40	175	0.81	Y
16CTQ060GPBF	TO-220	Com.Cath.	60	16	175	0.69	Y
	<b>TO-247</b>						
30CPQ100GPBF	TO-247	Com.Cath.	100	30	175	0.81	Y
40CPQ100GPBF	TO-247	Com.Cath.	100	40	175	0.75	Y
63CPQ100GPBF	TO-247	Com.Cath.	100	60	175	0.76	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>



## HPS GEN 3.x (Planar Technology)

		TO-247						
30CPQ090GPBF	TO-247	Com.Cath.	90	30	175	0.81	Y	
30CPQ080GPBF	TO-247	Com.Cath.	80	30	175	0.81	Y	
40CPQ080GPBF	TO-247	Com.Cath.	80	40	175	0.75	Y	
		TO-262						
16CTQ100G-1PBF	TO-262	Com.Cath.	100	16	175	0.69	Y	
MBR20100CTG-1P	TO-262	Com.Cath.	100	20	150	0.85	Y	
30CTQ100G-1PBF	TO-262	Com.Cath.	100	30	175	0.82	Y	
43CTQ100G-1PBF	TO-262	Com.Cath.	100	40	175	0.81	Y	
MBR2090CTG-1	TO-262	Com.Cath.	90	20	150	0.85	only leaded version is available	
16CTQ080G-1PBF	TO-262	Com.Cath.	80	16	175	0.69	Y	
MBR2080CTG-1	TO-262	Com.Cath.	80	20	150	0.85	only leaded version is available	
30CTQ080G-1PBF	TO-262	Com.Cath.	80	30	175	0.82	Y	
43CTQ080G-1PBF	TO-262	Com.Cath.	80	40	175	0.81	Y	
16CTQ060G-1PBF	TO-262	Com.Cath.	60	16	175	0.69	Y	







## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	V <sub>RRM</sub> (V)	I <sub>F AV</sub> (A)	t <sub>JMAX</sub> (°C)	V <sub>F</sub> @ I <sub>F</sub> (V) @ 125°C	Leaded version available?
	<b>C-16</b>						
31DQ10	C-16	Single	100	3.3	150	0.69 @ 3A	N
31DQ09	C-16	Single	90	3.3	150	0.69 @ 3A	N
MBR360	C-16	Single	60	3	150	0.64	N
31DQ06	C-16	Single	60	3.3	150	0.54 @ 3A	N
MBR350	C-16	Single	50	3	150	0.64	N
31DQ05	C-16	Single	50	3.3	150	0.54 @ 3A	N
31DQ04	C-16	Single	40	3.3	150	0.51 @ 3A	N
31DQ03	C-16	Single	30	3.3	150	0.51 @ 3A	N
1N5820	C-16	Single	20	3	150	0.47 @ 25°C	N
	<b>D2-PAK</b>						
10CTQ150SPBF	D2-PAK	Com.Cath.	150	10	175	0.86	Y
20CTQ150SPBF	D2-PAK	Com.Cath.	150	20	175	0.77	Y
40CTQ150SPBF	D2-PAK	Com.Cath.	150	40	175	0.85	Y
8TQ100SPBF	D2-PAK	Single	100	8	175	0.58	Y
16CTQ100SPBF	D2-PAK	Com.Cath.	100	16	175	0.69	Y
MBRB20100CTPBF	D2-PAK	Com.Cath.	100	20	150	0.85	Y
30CTQ100SPBF	D2-PAK	Com.Cath.	100	30	175	0.82	Y
43CTQ100SPBF	D2-PAK	Com.Cath.	100	40	175	0.81	Y
MBRB2090CTPBF	D2-PAK	Com.Cath.	90	20	150	0.85	Y
8TQ080SPBF	D2-PAK	Single	80	8	175	0.58	Y
16CTQ080SPBF	D2-PAK	Com.Cath.	80	16	175	0.69	Y
MBRB2080CTPBF	D2-PAK	Com.Cath.	80	20	150	0.85	Y
30CTQ080SPBF	D2-PAK	Com.Cath.	80	30	175	0.82	Y
15TQ060SPBF	D2-PAK	Single	60	15	150	0.56	Y
16CTQ060SPBF	D2-PAK	Com.Cath.	60	16	175	0.69	N
30CTQ060SPBF	D2-PAK	Com.Cath.	60	30	150	0.71	Y
48CTQ060SPBF	D2-PAK	Com.Cath.	60	40	150	0.75	Y
6TQ045SPBF	D2-PAK	Single	45	6	175	0.53	Y
MBRB745PBF	D2-PAK	Single	45	7.5	150	0.57	Y
10TQ045SPBF	D2-PAK	Single	45	10	175	0.49	Y
MBRB1045PBF	D2-PAK	Single	45	10	150	0.57	Y
12CTQ045SPBF	D2-PAK	Com.Cath.	45	12	175	0.64	Y
12TQ045SPBF	D2-PAK	Single	45	15	150	0.5	Y
15CTQ045-1PBF	D2-PAK	Com.Cath.	45	15	150	0.65	N
15CTQ045SPBF	D2-PAK	Com.Cath.	45	15	150	0.65	Y
MBRB1545CTPBF	D2-PAK	Com.Cath.	45	15	150	0.72	Y
MBRB1645PBF	D2-PAK	Single	45	16	150	0.57	Y
18TQ045SPBF	D2-PAK	Single	45	18	175	0.53	Y
20CTQ045SPBF	D2-PAK	Com.Cath.	45	20	175	0.68	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>



## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
	<b>D2-PAK</b>						
20TQ045SPBF	D2-PAK	Single	45	20	150	0.51	Y
MBRB2045CTPBF	D2-PAK	Com.Cath.	45	20	150	0.72	Y
25CTQ045SPBF	D2-PAK	Com.Cath.	45	30	150	0.64	Y
30CTQ045SPBF	D2-PAK	Com.Cath.	45	30	175	0.7	Y
MBRB2545CTPBF	D2-PAK	Com.Cath.	45	30	150	0.73	Y
MBRB3045CTPBF	D2-PAK	Com.Cath.	45	30	150	0.72	Y
40CTQ045SPBF	D2-PAK	Com.Cath.	45	40	150	0.67	Y
MBRB4045CTPBF	D2-PAK	Com.Cath.	45	40	150	0.75	Y
6TQ040SPBF	D2-PAK	Single	40	6	175	0.53	Y
12TQ040SPBF	D2-PAK	Single	40	15	150	0.5	Y
20CTQ040SPBF	D2-PAK	Com.Cath.	40	20	175	0.68	Y
20TQ040SPBF	D2-PAK	Single	40	20	150	0.51	Y
25CTQ040SPBF	D2-PAK	Com.Cath.	40	30	150	0.64	Y
6TQ035SPBF	D2-PAK	Single	35	6	175	0.53	Y
MBRB735PBF	D2-PAK	Single	35	7.5	150	0.57	Y
10TQ035SPBF	D2-PAK	Single	35	10	175	0.49	Y
MBRB1035PBF	D2-PAK	Single	35	10	150	0.57	Y
12CTQ035SPBF	D2-PAK	Com.Cath.	35	12	175	0.64	Y
12TQ035SPBF	D2-PAK	Single	35	15	150	0.5	Y
15CTQ035SPBF	D2-PAK	Com.Cath.	35	15	150	0.65	Y
MBRB1535CTPBF	D2-PAK	Com.Cath.	35	15	150	0.72	Y
MBRB1635PBF	D2-PAK	Single	35	16	150	0.57	Y
18TQ035SPBF	D2-PAK	Single	35	18	175	0.53	Y
20CTQ035SPBF	D2-PAK	Com.Cath.	35	20	175	0.68	Y
20TQ035SPBF	D2-PAK	Single	35	20	150	0.51	Y
MBRB2035CTPBF	D2-PAK	Com.Cath.	35	20	150	0.72	Y
25CTQ035SPBF	D2-PAK	Com.Cath.	35	30	150	0.64	Y
30CTQ035SPBF	D2-PAK	Com.Cath.	35	30	175	0.7	Y
MBRB2535CTPBF	D2-PAK	Com.Cath.	35	30	150	0.73	Y
32CTQ030SPBF	D2-PAK	Com.Cath.	30	30	150	0.53	Y
MBRB3030CTLPBF	D2-PAK	Com.Cath.	30	30	150	0.51	Y
42CTQ030SPBF	D2-PAK	Com.Cath.	30	40	150	0.51	Y
47CTQ020SPBF	D2-PAK	Com.Cath.	20	40	150	0.42	Y
19TQ015SPBF	D2-PAK	Single	15	19	125	0.32 @ 75°C	Y
20L15TSPBF	D2-PAK	Single	15	20	125	0.33 @ 19A	Y
STPS20L15GPBF	D2-PAK	Single	15	20	125	0.33	Y
40L15CTSPBF	D2-PAK	Com.Cath.	15	40	125	0.5	Y
	<b>D61-8</b>						
83CNQ100APBF	D61-8	Com.Cath.	100	80	175	0.82	Y
113CNQ100APBF	D61-8	Com.Cath.	100	110	175	0.79	Y

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## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
83CNQ080APBF	D61-8	Com.Cath.	80	80	175	0.82	Y
88CNQ060APBF	D61-8	Com.Cath.	60	80	150	0.67	Y
80CNQ045APBF	D61-8	Com.Cath.	45	80	150	0.61	Y
81CNQ045APBF	D61-8	Com.Cath.	45	80	175	0.66	Y
110CNQ045APBF	D61-8	Com.Cath.	45	110	150	0.69	Y
111CNQ045APBF	D61-8	Com.Cath.	45	110	175	0.69	Y
80CNQ040APBF	D61-8	Com.Cath.	40	80	150	0.61	Y
81CNQ040A	D61-8	Com.Cath.	40	80	175	0.66	only leaded version is available
80CNQ035APBF	D61-8	Com.Cath.	35	80	150	0.61	Y
81CNQ035A	D61-8	Com.Cath.	35	80	175	0.66	only leaded version is available
82CNQ030APBF	D61-8	Com.Cath.	30	80	150	0.47	Y
112CNQ030APBF	D61-8	Com.Cath.	30	110	150	0.51	Y
87CNQ020APBF	D61-8	Com.Cath.	20	80	150	0.39	Y
85CNQ015APBF	D61-8	Com.Cath.	15	80	125	0.42 @ 75°C	Y
115CNQ015APBF	D61-8	Com.Cath.	15	110	125	0.43 @ 75°C	Y
	<b>D61-8-SL</b>						
83CNQ100ASL	D61-8-SL	Com.Cath.	100	80	175	0.82	only leaded version is available
113CNQ100ASL	D61-8-SL	Com.Cath.	100	110	175	0.79	only leaded version is available
83CNQ080ASL	D61-8-SL	Com.Cath.	80	80	175	0.82	only leaded version is available
88CNQ060ASL	D61-8-SL	Com.Cath.	60	80	150	0.67	only leaded version is available
80CNQ045ASL	D61-8-SL	Com.Cath.	45	80	150	0.61	only leaded version is available
81CNQ045ASL	D61-8-SL	Com.Cath.	45	80	175	0.66	only leaded version is available
110CNQ045ASL	D61-8-SL	Com.Cath.	45	110	150	0.69	only leaded version is available
111CNQ045ASL	D61-8-SL	Com.Cath.	45	110	175	0.69	only leaded version is available
80CNQ040ASL	D61-8-SL	Com.Cath.	40	80	150	0.61	only leaded version is available
81CNQ040ASL	D61-8-SL	Com.Cath.	40	80	175	0.66	only leaded version is available
80CNQ035ASL	D61-8-SL	Com.Cath.	35	80	150	0.61	only leaded version is available
81CNQ035ASL	D61-8-SL	Com.Cath.	35	80	175	0.66	only leaded version is available
82CNQ030ASL	D61-8-SL	Com.Cath.	30	80	150	0.47	only leaded version is available
112CNQ030ASL	D61-8-SL	Com.Cath.	30	110	150	0.51	only leaded version is available
87CNQ020ASL	D61-8-SL	Com.Cath.	20	80	150	0.39	only leaded version is available
85CNQ015ASL	D61-8-SL	Com.Cath.	15	80	125	0.42 @ 75°C	only leaded version is available
115CNQ015ASL	D61-8-SL	Com.Cath.	15	110	125	0.43 @ 75°C	only leaded version is available
	<b>D61-8-SM</b>						
83CNQ100ASM	D61-8-SM	Com.Cath.	100	80	175	0.82	only leaded version is available
113CNQ100ASM	D61-8-SM	Com.Cath.	100	110	175	0.79	only leaded version is available
83CNQ080ASM	D61-8-SM	Com.Cath.	80	80	175	0.82	only leaded version is available
88CNQ060ASM	D61-8-SM	Com.Cath.	60	80	150	0.67	only leaded version is available
80CNQ045ASM	D61-8-SM	Com.Cath.	45	80	150	0.61	only leaded version is available

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>




## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
	<b>D61-8-SM</b>						
81CNQ045ASM	D61-8-SM	Com.Cath.	45	80	175	0.66	only leaded version is available
110CNQ045ASM	D61-8-SM	Com.Cath.	45	110	150	0.69	only leaded version is available
111CNQ045ASM	D61-8-SM	Com.Cath.	45	110	175	0.69	only leaded version is available
80CNQ040ASM	D61-8-SM	Com.Cath.	40	80	150	0.61	only leaded version is available
81CNQ040ASM	D61-8-SM	Com.Cath.	40	80	175	0.66	only leaded version is available
80CNQ035ASM	D61-8-SM	Com.Cath.	35	80	150	0.61	only leaded version is available
81CNQ035ASM	D61-8-SM	Com.Cath.	35	80	175	0.66	only leaded version is available
82CNQ030ASM	D61-8-SM	Com.Cath.	30	80	150	0.47	only leaded version is available
112CNQ030ASM	D61-8-SM	Com.Cath.	30	110	150	0.51	only leaded version is available
87CNQ020ASM	D61-8-SM	Com.Cath.	20	80	150	0.39	only leaded version is available
85CNQ015ASM	D61-8-SM	Com.Cath.	15	80	125	0.42 @ 75°C	only leaded version is available
115CNQ015ASM	D61-8-SM	Com.Cath.	15	110	125	0.43 @ 75°C	only leaded version is available
	<b>DO-204AL</b>						
MBR1100	DO-204AL	Single	100	1	150	0.68	N
11DQ10	DO-204AL	Single	100	1.1	150	0.68 @ 1A	N
11DQ09	DO-204AL	Single	90	1.1	150	0.68 @ 1A	N
MBR160	DO-204AL	Single	60	1	150	0.65	N
11DQ06	DO-204AL	Single	60	1.1	150	0.53 @ 1A	N
21DQ06	DO-204AL	Single	60	2	150	0.55	N
MBR150	DO-204AL	Single	50	1	150	0.65	N
11DQ05	DO-204AL	Single	50	1.1	150	0.53 @ 1A	N
1N5819	DO-204AL	Single	40	1	150	0.55	N
11DQ04	DO-204AL	Single	40	1.1	150	0.5 @ 1A	N
21DQ04	DO-204AL	Single	40	2	150	0.5	N
MBR340	DO-204AL	Single	40	3	150	0.49	N
1N5818	DO-204AL	Single	30	1	150	0.55	N
11DQ03	DO-204AL	Single	30	1.1	150	0.5 @ 1A	N
1N5817	DO-204AL	Single	20	1	150	0.45 @ 25°C	N
	<b>DO-204AR</b>						
50SQ060	DO-204AR	Single	100	5	175	0.52	N
50SQ100	DO-204AR	Single	100	5	175	0.52	N
50SQ080	DO-204AR	Single	80	5	175	0.52	N
80SQ045	DO-204AR	Single	45	8	175	0.44	N
90SQ045	DO-204AR	Single	45	9	150	0.42	N
80SQ040	DO-204AR	Single	40	8	175	0.44	N
90SQ040	DO-204AR	Single	40	9	150	0.42	N
80SQ035	DO-204AR	Single	35	8	175	0.44	N
90SQ035	DO-204AR	Single	35	9	150	0.42	N

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## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
80SQ030	DO-204AR	Single	30	8	175	0.44	N
90SQ030	DO-204AR	Single	30	9	150	0.42	N
95SQ015	DO-204AR	Single	15	9	125	0.25 @ 75°C	N
	<b>D-PAK</b>						
30WQ10FNPBF	D-PAK	Single	100	3.5	150	0.63 @ 3A	N
50WQ10FNPBF	D-PAK	Single	100	5.5	150	0.63 @ 5A	N
6CWQ10FNPBF	D-PAK	Com.Cath.	100	7	150	0.74 @ 6A	N
12CWQ10FNPBF	D-PAK	Com.Cath.	100	12	150	0.78	N
30WQ06FNPBF	D-PAK	Single	60	3.5	150	0.53 @ 3A	N
50WQ06FNPBF	D-PAK	Single	60	5.5	150	0.54 @ 5A	N
MBRD660CTPBF	D-PAK	Com.Cath.	60	6	150	0.65	N
6CWQ06FNPBF	D-PAK	Com.Cath.	60	7	150	0.65 @ 6A	N
12CWQ06FNPBF	D-PAK	Com.Cath.	60	12	150	0.72	N
MBRD650CTPBF	D-PAK	Com.Cath.	50	6	150	0.65	N
10WQ045FNPBF	D-PAK	Single	45	10	175	0.53	N
STPS1045BPBF	D-PAK	Single	45	10	175	0.57	N
MBRD340PBF	D-PAK	Single	40	3	150	0.49	N
30WQ04FNPBF	D-PAK	Single	40	3.5	150	0.49 @ 3A	N
50WQ04FNPBF	D-PAK	Single	40	5.5	150	0.44 @ 5A	N
6CWQ04FNPBF	D-PAK	Com.Cath.	40	7	150	0.62 @ 6A	N
12CWQ04FNPBF	D-PAK	Com.Cath.	40	12	150	0.64	N
MBRD330PBF	D-PAK	Single	30	3	150	0.49	N
30WQ03FNPBF	D-PAK	Single	30	3.5	150	0.35 @ 3A	N
50WQ03FNPBF	D-PAK	Single	30	5.5	150	0.35 @ 5A	N
6CWQ03FNPBF	D-PAK	Com.Cath.	30	7	150	0.46 @ 6A	N
12CWQ03FNPBF	D-PAK	Com.Cath.	30	12	150	0.49	N
MBRD320PBF	D-PAK	Single	20	3	150	0.49	N
	<b>PowerTab™</b>						
100BGQ100	PowerTab™	Single	100	100	175	0.77	N
175BGQ100	PowerTab™	Com.Cath.	100	175	175	0.95	N
100BGQ045	PowerTab™	Single	45	100	150	0.68 @ 150°C	N
175BGQ045	PowerTab™	Com.Cath.	45	175	150	0.64 @ 150°C	N
100BGQ030	PowerTab™	Single	30	100	150	0.51 @ 150°C	N
175BGQ030	PowerTab™	Com.Cath.	30	175	150	0.49 @ 150°C	N
100BGQ015	PowerTab™	Single	15	100	125	0.42	N
	<b>SMA</b>						
10MQ100NPBF	SMA	Single	100	1.5	150	0.68	N
10MQ060NPBF	SMA	Single	60	1.5	150	0.63	N
MBRA140TRPBF	SMA	Single	40	1	150	0.49	N
10MQ040NPBF	SMA	Single	40	1.5	150	0.56	N

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## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{FAV}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
	<b>SMA</b>						
15MQ040NPBF	SMA	Single	40	2.1	150	0.43 @ 2A	N
MBRA120TRPBF	SMA	Single	20	1	150	0.35	N
	<b>SMB</b>						
10BQ100PBF	SMB	Single	100	1	175	0.62	N
MBRS1100TRPBF	SMB	Single	100	1	175	0.62	N
MBRS190TRPBF	SMB	Single	90	1	175	0.62	N
10BQ060PBF	SMB	Single	60	1	150	0.57	N
10BQ040PBF	SMB	Single	40	1	150	0.49	N
MBRS140TRPBF	SMB	Single	40	1	150	0.53	N
10BQ030PBF	SMB	Single	30	1	150	0.3	N
MBRS130LTRPBF	SMB	Single	30	1	125	0.3	N
MBRS130TRPBF	SMB	Single	30	1	125	0.42	N
STPS1L30UPBF	SMB	Single	30	1	150	0.3	N
20BQ030PBF	SMB	Single	30	2	150	0.37	N
MBRS120TRPBF	SMB	Single	20	1	150	0.35	N
10BQ015PBF	SMB	Single	15	1	125	0.32	N
	<b>SMC</b>						
30BQ100PBF	SMC	Single	100	3	175	0.62	N
30BQ060PBF	SMC	Single	60	3	150	0.52	N
MBRS360TRPBF	SMC	Single	60	3	150	0.61	N
30BQ040PBF	SMC	Single	40	3	150	0.43	N
MBRS340TRPBF	SMC	Single	40	3	150	0.43	N
MBRS320TRPBF	SMC	Single	20	3	150	0.36	N
30BQ015PBF	SMC	Single	15	3	125	0.3 @ 75°C	N
	<b>SOD-123</b>						
MBR0540PBF	SOD-123	Single	40	0.5	150	0.42 @ 100°C	Y
MBR0530PBF	SOD-123	Single	30	0.5	150	0.35	Y
MBR0520PBF	SOD-123	Single	20	0.5	150	0.36 @ 100°C	Y
	<b>SOD-323</b>						
BAT54WSPBF	SOD-323	Single	30	0.2	150	0.5 @ 0.3A	Y
	<b>SOT-223</b>						
20CJQ100PBF	SOT-223	Com.Cath.	100	2	175	0.76	Y
20CJQ060PBF	SOT-223	Com.Cath.	60	2	150	0.67	Y
20CJQ045PBF	SOT-223	Com.Cath.	45	2	150	0.65	Y
20CJQ030PBF	SOT-223	Com.Cath.	30	2	150	0.52	Y
	<b>SOT-23</b>						
BAT54APBF	SOT-23	Common Anode	30	0.2	150	0.5 @ 0.3A	Y
BAT54CPBF	SOT-23	Com.Cath.	30	0.2	150	0.5 @ 0.3A	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>




## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
BAT54PBF	SOT-23	Single	30	0.2	150	0.5 @ 0.3A	Y
BAT54SPBF	SOT-23	Doubler	30	0.2	150	0.5 @ 0.3A	Y
	<b>SOT-323</b>						
BAT54AWPBF	SOT-323	Common Anode	30	0.2	150	0.5 @ 0.3A	Y
BAT54CWPBF	SOT-323	Com.Cath.	30	0.2	150	0.5 @ 0.3A	Y
BAT54SWPBF	SOT-323	Doubler	30	0.2	150	0.5 @ 0.3A	Y
BAT54WPBF	SOT-323	Single	30	0.2	150	0.5 @ 0.3A	Y
	<b>TO-220</b>						
10CTQ150PBF	TO-220	Com.Cath.	150	10	175	0.86	Y
20CTQ150PBF	TO-220	Com.Cath.	150	20	175	0.77	Y
40CTQ150PBF	TO-220	Com.Cath.	150	40	175	0.85	Y
60CTQ150PBF	TO-220	Com.Cath.	150	60	175	0.87	Y
8TQ100PBF	TO-220	Single	100	8	175	0.58	Y
16CTQ100PBF	TO-220	Com.Cath.	100	16	175	0.69	Y
30CTQ100PBF	TO-220	Com.Cath.	100	30	175	0.82	Y
43CTQ100PBF	TO-220	Com.Cath.	100	40	175	0.81	Y
63CTQ100PBF	TO-220	Com.Cath.	100	60	175	0.83	Y
8TQ080PBF	TO-220	Single	80	8	175	0.58	Y
16CTQ080PBF	TO-220	Com.Cath.	80	16	175	0.69	Y
30CTQ080PBF	TO-220	Com.Cath.	80	30	175	0.82	Y
8TQ060PBF	TO-220	Single	60	8	175	0.58	Y
15TQ060PBF	TO-220	Single	60	15	150	0.56	Y
16CTQ060PBF	TO-220	Com.Cath.	60	16	175	0.69	Y
30CTQ060PBF	TO-220	Com.Cath.	60	30	150	0.71	Y
48CTQ060PBF	TO-220	Com.Cath.	60	40	150	0.75	Y
18TQ050PBF	TO-220	Single	50	18	175	0.53	Y
30CTQ050PBF	TO-220	Com.Cath.	50	30	150	0.71	Y
6TQ045PBF	TO-220	Single	45	6	175	0.53	Y
MBR745PBF	TO-220	Single	45	7.5	150	0.57	Y
10TQ045PBF	TO-220	Single	45	10	175	0.49	Y
MBR1045PBF	TO-220	Single	45	10	150	0.57	Y
12CTQ045PBF	TO-220	Com.Cath.	45	12	175	0.64	Y
12TQ045PBF	TO-220	Single	45	15	150	0.5	Y
15CTQ045PBF	TO-220	Com.Cath.	45	15	150	0.65	Y
MBR1545CTPBF	TO-220	Com.Cath.	45	15	150	0.72	Y
MBR1645PBF	TO-220	Single	45	16	150	0.57	Y
18TQ045PBF	TO-220	Single	45	18	175	0.53	Y
20CTQ045PBF	TO-220	Com.Cath.	45	20	175	0.68	Y
20TQ045PBF	TO-220	Single	45	20	150	0.51	Y
MBR2045CTPBF	TO-220	Com.Cath.	45	20	150	0.72	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>

## HPS GEN 2.x (Planar Technology)


DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{J_{MAX}}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
 <b>TO-220</b>							
25CTQ045PBF	TO-220	Com.Cath.	45	30	150	0.64	Y
30CTQ045PBF	TO-220	Com.Cath.	45	30	175	0.7	Y
MBR2545CTPBF	TO-220	Com.Cath.	45	30	150	0.73	Y
MBR3045CTPBF	TO-220	Com.Cath.	45	30	150	0.72	Y
40CTQ045PBF	TO-220	Com.Cath.	45	40	150	0.67	Y
MBR4045CTPBF	TO-220	Single	45	40	150	0.75	Y
60CTQ045PBF	TO-220	Single	45	60	150	0.75	Y
61CTQ045PBF	TO-220	Single	45	60	175	0.74	Y
6TQ040PBF	TO-220	Single	40	6	175	0.53	Y
10TQ040PBF	TO-220	Single	40	10	175	0.49	Y
12CTQ040PBF	TO-220	Com.Cath.	40	12	175	0.64	Y
12TQ040PBF	TO-220	Single	40	15	150	0.5	Y
15CTQ040PBF	TO-220	Com.Cath.	40	15	150	0.65	Y
18TQ040PBF	TO-220	Single	40	18	175	0.53	Y
20CTQ040PBF	TO-220	Com.Cath.	40	20	175	0.68	Y
20TQ040PBF	TO-220	Single	40	20	150	0.51	Y
25CTQ040PBF	TO-220	Com.Cath.	40	30	150	0.64	Y
30CTQ040PBF	TO-220	Com.Cath.	40	30	175	0.7	Y
60CTQ040PBF	TO-220	Com.Cath.	40	60	150	0.75	Y
61CTQ040PBF	TO-220	Com.Cath.	40	60	175	0.74	Y
6TQ035PBF	TO-220	Single	35	6	175	0.53	Y
MBR735PBF	TO-220	Single	35	7.5	150	0.57	Y
10TQ035PBF	TO-220	Single	35	10	175	0.49	Y
MBR1035PBF	TO-220	Single	35	10	150	0.57	Y
12CTQ035PBF	TO-220	Com.Cath.	35	12	175	0.64	Y
12TQ035PBF	TO-220	Single	35	15	150	0.5	Y
15CTQ035PBF	TO-220	Com.Cath.	35	15	150	0.65	Y
MBR1535CTPBF	TO-220	Com.Cath.	35	15	150	0.72	Y
MBR1635PBF	TO-220	Single	35	16	150	0.57	Y
18TQ035PBF	TO-220	Single	35	18	175	0.53	Y
20CTQ035PBF	TO-220	Com.Cath.	35	20	175	0.68	Y
20TQ035PBF	TO-220	Single	35	20	150	0.51	Y
MBR2035CTPBF	TO-220	Com.Cath.	35	20	150	0.72	Y
25CTQ035PBF	TO-220	Com.Cath.	35	30	150	0.64	Y
30CTQ035PBF	TO-220	Com.Cath.	35	30	175	0.7	Y
MBR2535CTPBF	TO-220	Com.Cath.	35	30	150	0.73	Y
60CTQ035PBF	TO-220	Com.Cath.	35	60	150	0.75	Y
61CTQ035PBF	TO-220	Com.Cath.	35	60	175	0.74	Y
30L30CTPBF	TO-220	Com.Cath.	30	30	150	0.5	Y

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## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	$V_{RRM}$ (V)	$I_{F_{AV}}$ (A)	$t_{JMAX}$ (°C)	$V_F @ I_F$ (V) @ 125°C	Leaded version available?
32CTQ030PBF	TO-220	Com.Cath.	30	30	150	0.53	Y
STPS30L30CTPBF	TO-220	Com.Cath.	30	30	150	0.5	Y
42CTQ030PBF	TO-220	Com.Cath.	30	40	150	0.51	Y
62CTQ030PBF	TO-220	Single	30	60	150	0.59	Y
32CTQ025PBF	TO-220	Single	25	30	150	0.53	Y
47CTQ020PBF	TO-220	Com.Cath.	20	40	150	0.42	Y
19TQ015PBF	TO-220	Single	15	19	125	0.32 @ 75°C	Y
20L15TPBF	TO-220	Single	15	20	125	0.33 @ 19A	Y
STPS20L15DPBF	TO-220	Single	15	20	125	0.33 @ 19A	Y
40L15CTPBF	TO-220	Com.Cath.	15	40	125	0.5	Y
STPS40L15CTPBF	TO-220	Single	15	40	125	0.33	Y
	<b>TO-247</b>						
30CPQ140PBF	TO-247	Com.Cath.	150	30	175	0.93	Y
30CPQ150PBF	TO-247	Com.Cath.	150	30	175	0.93	Y
60CPQ150PBF	TO-247	Com.Cath.	150	60	175	0.77	Y
80CPQ150PBF	TO-247	Com.Cath.	150	80	175	0.85	Y
30CPQ100PBF	TO-247	Com.Cath.	100	30	175	0.81	Y
40CPQ100PBF	TO-247	Com.Cath.	100	40	175	0.75	Y
63CPQ100PBF	TO-247	Com.Cath.	100	60	175	0.76	Y
30CPQ090PBF	TO-247	Com.Cath.	90	30	175	0.81	Y
30CPQ080PBF	TO-247	Com.Cath.	80	30	175	0.81	Y
40CPQ080PBF	TO-247	Com.Cath.	80	40	175	0.75	Y
30CPQ060PBF	TO-247	Com.Cath.	60	30	150	0.7	Y
STPS30L60CW PBF	TO-247	Single	60	30	150	0.7	Y
40CPQ060PBF	TO-247	Com.Cath.	60	40	150	0.64	Y
MBR4060WTPBF	TO-247	Single	60	40	150	0.62 @ 20A	Y
30CPQ050PBF	TO-247	Com.Cath.	50	30	150	0.7	Y
40CPQ050PBF	TO-247	Com.Cath.	50	40	150	0.64	Y
30CPQ045PBF	TO-247	Com.Cath.	45	30	150	0.64	Y
MBR3045WTPBF	TO-247	Com.Cath.	45	30	150	0.72	Y
40CPQ045PBF	TO-247	Com.Cath.	45	40	150	0.56	Y
40L45CW PBF	TO-247	Com.Cath.	45	40	150	0.7	Y
MBR4045WTPBF	TO-247	Single	45	40	150	0.72	Y
STPS40L45CW PBF	TO-247	Single	45	40	150	0.7	Y
MBR6045WTPBF	TO-247	Single	45	60	150	0.55 @ 30A	Y
30CPQ040PBF	TO-247	Com.Cath.	40	30	150	0.64	Y
40CPQ040PBF	TO-247	Com.Cath.	40	40	150	0.56	Y
40L40CW PBF	TO-247	Com.Cath.	40	40	150	0.7	Y
STPS40L40CW PBF	TO-247	Single	40	40	150	0.56	Y
30CPQ035PBF	TO-247	Com.Cath.	35	30	150	0.64	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>

## HPS GEN 2.x (Planar Technology)

DEVICE	PACKAGE	CONFIGURATION	V <sub>RRM</sub> (V)	I <sub>F AV</sub> (A)	t <sub>JMAX</sub> (°C)	V <sub>F</sub> @ I <sub>F</sub> (V) @ 125°C	Leaded version available?
	<b>TO-247</b>						
MBR3035WTPBF	TO-247	Single	35	30	150	0.72	Y
40CPQ035PBF	TO-247	Com.Cath.	35	40	150	0.56	Y
52CPQ030PBF	TO-247	Single	30	50	150	0.49	Y
72CPQ030PBF	TO-247	Com.Cath.	30	70	150	0.58	Y
80CPQ020PBF	TO-247	Com.Cath.	20	80	150	0.46	Y
40L15CWPBF	TO-247	Com.Cath.	15	40	125	0.5	Y
MBR40L15CWPBF	TO-247	Single	15	40	125	0.5	Y
STPS40L15CWPBF	TO-247	Single	15	40	125	0.5	Y
65PQ015PBF	TO-247	Single	15	65	125	0.46	Y
	<b>TO-262</b>						
10CTQ150-1PBF	TO-262	Com.Cath.	150	10	175	0.86	Y
20CTQ150-1PBF	TO-262	Com.Cath.	150	20	175	0.77	Y
40CTQ150-1PBF	TO-262	Com.Cath.	150	40	175	0.85	Y
16CTQ100-1PBF	TO-262	Com.Cath.	100	16	175	0.69	Y
MBR20100CT-1PBF	TO-262	Com.Cath.	100	20	150	0.85	Y
30CTQ100-1PBF	TO-262	Com.Cath.	100	30	175	0.82	Y
43CTQ100-1PBF	TO-262	Com.Cath.	100	40	175	0.81	Y
MBR2090CT-1PBF	TO-262	Com.Cath.	90	20	150	0.85	Y
MBR2080CT-1PBF	TO-262	Com.Cath.	80	20	150	0.85	Y
30CTQ080-1PBF	TO-262	Com.Cath.	80	30	175	0.82	Y
30CTQ060-1PBF	TO-262	Com.Cath.	60	30	150	0.71	Y
48CTQ060-1PBF	TO-262	Com.Cath.	60	40	150	0.75	Y
MBR1545CT-1PBF	TO-262	Com.Cath.	45	15	150	0.72	Y
20CTQ045-1PBF	TO-262	Com.Cath.	45	20	175	0.68	Y
MBR2045CT-1PBF	TO-262	Com.Cath.	45	20	150	0.72	Y
MBR2545CT-1PBF	TO-262	Com.Cath.	45	25	150	0.73	Y
30CTQ045-1PBF	TO-262	Com.Cath.	45	30	175	0.7	Y
MBR3045CT-1PBF	TO-262	Com.Cath.	45	30	150	0.72	Y
40CTQ045-1PBF	TO-262	Com.Cath.	45	40	150	0.67	Y
MBR4045CT-1PBF	TO-262	Com.Cath.	45	40	150	0.75	Y
15CTQ040-1PBF	TO-262	Com.Cath.	40	15	150	0.65	N
15CTQ035-1PBF	TO-262	Com.Cath.	35	15	150	0.65	N
MBR1535CT-1PBF	TO-262	Com.Cath.	35	15	150	0.72	Y
MBR2035CT-1PBF	TO-262	Com.Cath.	35	20	150	0.72	Y
MBR2535CT-1PBF	TO-262	Com.Cath.	35	30	150	0.73	Y
30L30CT-1PBF	TO-262	Com.Cath.	30	30	150	0.5	Y
32CTQ030-1PBF	TO-262	Com.Cath.	30	30	150	0.53	Y
42CTQ030-1PBF	TO-262	Com.Cath.	30	40	150	0.51	Y
47CTQ020-1PBF	TO-262	Com.Cath.	20	40	150	0.42	Y
40L15CT-1PBF	TO-262	Com.Cath.	15	40	125	0.5	Y

For further information: <http://www.vishay.com/diodes/rectifiers/high-performance/>



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