



# SMALL SIGNAL SCHOTTKY DIODES

Part Number	Marking Code	Peak Reverse Voltage	Maximum Reverse Current	Maximum Forward Voltage Drop				Surge Current	Capacitance	Pin Identity
		PRV	$I_R$	$V_F @ I_F$		$V_F @ I_F$		$I_{FSM}$	$C_{TOT}$	
		V	$\mu A$	mV	mA	mV	mA	mAdc	pF	

## 200mW SCHOTTKY DIODE / SOT-23 / SURFACE MOUNT

BAT54	L4P	30	2.0*	320	1.0	500	30	1000	10.0	Fig.1
BAT54A	L42	30	2.0*	320	1.0	500	30	1000	10.0	Fig.2
BAT54C	L43	30	2.0*	320	1.0	500	30	1000	10.0	Fig.3
BAT54S	L44	30	2.0*	320	1.0	500	30	1000	10.0	Fig.4
BAS40	43	40	0.2**	380	1.0	1000	40	600	5	Fig.1
BAS40-04	44	40	0.2**	380	1.0	1000	40	600	5	Fig.4
BAS40-05	45	40	0.2**	380	1.0	1000	40	600	5	Fig.3
BAS40-06	46	40	0.2**	380	1.0	1000	40	600	5	Fig.2
BAS70	73	70	0.2***	410	1.0	1000	15	600	2	Fig.1
BAS70-04	74	70	0.2***	410	1.0	1000	15	600	2	Fig.4
BAS70-05	75	70	0.2***	410	1.0	1000	15	600	2	Fig.3
BAS70-06	76	70	0.2***	410	1.0	1000	15	600	2	Fig.2

\* Tested at  $V_R=25V$ . \*\* Tested at  $V_R=30V$ . \*\*\* Tested at  $V_R=50V$   
Pin Configuration - Top View

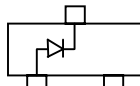


Figure 1

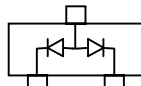


Figure 2

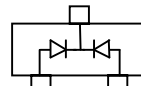


Figure 3

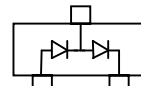


Figure 4

## 200mW SCHOTTKY DIODE / SOT-323 / SURFACE MOUNT

BAT54WT	KL5	30	2.0*	320	1.0	500	30	600	10.0	Fig.1
BAT54AWT	KL6	30	2.0*	320	1.0	500	30	600	10.0	Fig.2
BAT54CWT	KL7	30	2.0*	320	1.0	500	30	600	10.0	Fig.3
BAT54SWT	KL8	30	2.0*	320	1.0	500	30	600	10.0	Fig.4
BAS40WT	K43	40	0.2**	380	1.0	1000	40	---	5.0	Fig.1
BAS40WT-04	K44	40	0.2**	380	1.0	1000	40	---	5.0	Fig.4
BAS40WT-05	K45	40	0.2**	380	1.0	1000	40	---	5.0	Fig.3
BAS40WT-06	K46	40	0.2**	380	1.0	1000	40	---	5.0	Fig.2
BAS70WT	K73	70	0.1***	410	1	1000	15	---	2.0	Fig.1
BAS70WT-04	K74	70	0.1***	410	1	1000	15	---	2.0	Fig.4
BAS70WT-05	K75	70	0.1***	410	1	1000	15	---	2.0	Fig.3
BAS70WT-06	K76	70	0.1***	410	1	1000	15	---	2.0	Fig.2

\* Tested at  $V_R=25V$ . \*\* Tested at  $V_R=30V$ . \*\*\* Tested at  $V_R=50V$



Part Number	Marking Code	Peak Reverse Voltage	Maximum Reverse Current	Maximum Forward Voltage Drop				Surge Current (1 Second Pulse)	Capacitance	Maximum Reverse Recovery Time
		PRV	I <sub>R</sub>	V <sub>F</sub> @ I <sub>F</sub>		V <sub>F</sub> @ I <sub>F</sub>		I <sub>FSM</sub>	C <sub>TOT</sub>	trr
		V	μA	mV	mA	mV	mA	mAdc	pF	ns

### 150mW SCHOTTKY DIODE / SOT-523 / SURFACE MOUNT

BAS40T	43	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40-04T	44	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40-05T	45	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40-06T	46	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAT54T	L1	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54AT	L2	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54CT	L3	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54ST	L4	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAS70T	7C	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70-04T	7D	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70-05T	7E	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70-06T	7F	70	0.1***	410	1.0	1000	15	100	2.0	5.0

\*Tested at V<sub>R</sub>=25V. \*\* Tested at V<sub>R</sub>=30V \*\*\*Tested at V<sub>R</sub>=50V

### 150mW SCHOTTKY DIODE / SOT-563 / SURFACE MOUNT

BAT54V	KAV	30	2.0*	320	1.0	500	30	---	10.0	5.0
BAS40V	KAN	40	0.2**	380	1.0	1000	40	---	5.0	5.0

\* Tested at V<sub>R</sub>=25V. \*\* Tested at V<sub>R</sub>=30V

### 200mW SCHOTTKY DIODE / SOT-363 / SURFACE MOUNT

BAS40BRW	K47	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40DW-04	K44	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40DW-05	K45	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40DW-06	K46	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAS40TW	K43	40	0.2**	380	1.0	1000	40	---	5.0	5.0
BAT54TW	KLA	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54ADW	KL6	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54CDW	KL7	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54SDW	KL8	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54BRW	KLB	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAT54DW	KLD	30	2.0*	320	1.0	500	30	600	10.0	5.0
BAS70BRW	K75	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70DW-04	K74	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70DW-05	K71	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70DW-06	K76	70	0.1***	410	1.0	1000	15	100	2.0	5.0
BAS70TW	K73	70	0.1***	410	1.0	1000	15	100	2.0	5.0

● Tested at V<sub>R</sub>=25V. \*\* Tested at V<sub>R</sub>=30V \*\*\*Tested at V<sub>R</sub>=50V

### 200mW SCHOTTKY / SOD-523 / SURFACE MOUNT

BAT54WX	JV	30	2.0*	320	1.0	400	10	600	10.0	5.0
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\*Tested at V<sub>R</sub>=25V

### 250mW SCHOTTKY / SOD-323 / SURFACE MOUNT

BAT60B	W5	10	15	380	100	500	500	5000	30	---
SD107WS	S1	30	1.0	360	15	580	100	750	7.0	---

### 350mW SCHOTTKY / SOD323 / SURFACE MOUNT

BAS40WX	43	40	0.2**	380	1.0	1000	40	600	5.0	5.0
BAS70WX	K73	70	0.1***	410	1.0	1000	15	100	2.0	5.0

\* Tested at V<sub>R</sub>=25V. \*\* Tested at V<sub>R</sub>=30V \*\*\*Tested at V<sub>R</sub>=50V

OPERATING/STORAGE TEMPERATURE RANGE: -55°C to 150°C



Part Number	Maximum Peak Reverse Voltage	Average Rectified Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ PRV @ 25°C T <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>	
	PRV	I <sub>o</sub> @ T <sub>A</sub>		I <sub>FSM</sub>	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>
	V	A	°C	A	mAdc	A	V

### 150mW SCHOTTKY / DO-35



BAT45	15	*	25	0.06	100nA @ V <sub>R</sub> =6.0V	10mA	.50
BAT46	100	*	25	0.75	0.5µA @ V <sub>R</sub> =1.5V	10mA	.45

### 200mW SCHOTTKY / DO-35



BAT42	30	*	25	4.0	0.5µA @ V <sub>R</sub> =25V	50mA	.65
BAT43	30	*	25	4.0	0.5µA @ V <sub>R</sub> =25V	15mA	.45

### 330mW SCHOTTKY / GLASS MINIMELF / SURFACE MOUNT



LL48	40	*	25	7.5	2.0µA @ V <sub>R</sub> =10V	10mA	.45
LL60	40	0.03	25	0.15	0.5µA @ V <sub>R</sub> =15V	1mA	0.5
LL60P	45	0.05	25	0.5	1.0µA @ V <sub>R</sub> =15V	1mA	0.5
LL85	30	0.2	25	0.6	2.0µA @ V <sub>R</sub> =25V	10mA	.40

### 400mW SCHOTTKY / DO-35



BAT85	30	*	25	0.6	2.0µA @ V <sub>R</sub> =25V	10mA	.40
BAT86	50	*	25	---	0.5µA @ V <sub>R</sub> =25V	10mA	.45

### 0.1 AMPERE SCHOTTKY / DO-34



RB441Q-40	40	0.1	25	10.	0.1	0.01	0.34
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### 0.03 AMPERE SCHOTTKY / DO-35



RB721Q-40	40	0.03	25	0.2	0.0005	0.001	0.37
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### 0.03~0.1 AMPERE SCHOTTKY / SOD-882



RB520S-30LP	30	0.1	25	0.5	0.0005@10V	0.01	0.45
RB521S-30LP	30	0.1	25	1.0	0.01@10V	0.01	0.35
RB751S-40LP	40	0.03	25	0.15	0.0005@30V	0.001	0.37



Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ VR @ 25°C TA	Maximum Forward Voltage @ 25°C TA	
		PRV	IO@ TA		IFSM	IR	IFM	VFM
		V	A	°C	A	mAdc	A	V

### 200mW SCHOTTKY / SOD323 / SURFACE MOUNT

Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current	Temperature	Forward Peak Surge Current	Maximum Reverse Current	Maximum Forward Current	Maximum Forward Voltage
BAT42WS	S7	30	*	25	4.0	500nA @ VR=25V	50mA	.65
BAT43WS	S8	30	*	25	4.0	500nA @ VR=25V	15mA	.45
BAT54WS	L9/JV	30	*	25	0.6	0.2µA @ VR=25V	10mA	.40

### 200mW SCHOTTKY / SOD123 / SURFACE MOUNT

Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current	Temperature	Forward Peak Surge Current	Maximum Reverse Current	Maximum Forward Current	Maximum Forward Voltage
BAT42W	S7/L2	30	*	25	4.0	500nA @ VR=25V	50mA	.65
BAT43W	S8/L3	30	*	25	4.0	500nA @ VR=25V	15mA	.45
BAT54W	L9	30	*	25	0.6	0.2µA @ VR=25V	10mA	.40

### 400mW SCHOTTKY / SOD123 / SURFACE MOUNT

Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current	Temperature	Forward Peak Surge Current	Maximum Reverse Current	Maximum Forward Current	Maximum Forward Voltage
SD101AW	S1	60	*	25	2**	200nA @ VR=30V	15mA	1.00
SD101BW	S2	50	*	25	2**	200nA @ VR=20V	15mA	.95
SD101CW	S3	40	*	25	2**	200nA @ VR=10V	15mA	.90
SD103AW	S4	40	*	25	1.5**	5.0µA @ VR=30V	200mA	.60
SD103BW	S5	30	*	25	1.5**	5.0µA @ VR=20V	200mA	.60
SD103CW	S6	210	*	25	1.5**	5.0µA @ VR=10V	200mA	.60

\*Maximum power dissipation is 400mW at 25°C. Temperature measured at device body. Derate 4mW/°C above 25°C

\*\* 10 µSec square wave

### 400mW SCHOTTKY / SOD323 / SURFACE MOUNT

Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current	Temperature	Forward Peak Surge Current	Maximum Reverse Current	Maximum Forward Current	Maximum Forward Voltage
SD101AWS	S1	60	*	25	2**	200nA @ VR=50V	15mA	1.00
SD101BWS	S2	50	*	25	2**	200nA @ VR=40V	15mA	.95
SD101CWS	S3	40	*	25	2**	200nA @ VR=30V	15mA	.90
SD103AWS	S4	40	*	25	1.5**	5.0µA @ VR=30V	200mA	.60
SD103BWS	S5	30	*	25	1.5**	5.0µA @ VR=20V	200mA	.60
SD103CWS	S6	20	*	25	1.5**	5.0µA @ VR=10V	200mA	.60

\*Maximum power dissipation is 400mW at 25°C. Temperature measured at device body. Derate 4mW/°C above 25°C

\*\* 10 µSec square wave

### 0.5~1.0 AMPERE SCHOTTKY / SOD123 / SURFACE MOUNT

Part Number	Marking Code	Maximum Peak Reverse Voltage	Average Rectified Current	Temperature	Forward Peak Surge Current	Maximum Reverse Current	Maximum Forward Current	Maximum Forward Voltage
MBR0520	R2	20	0.5	50	5.5	0.2	0.5	.45
MBR0520L	SD	20	0.5	50	5.5	0.25	0.5	.385
MBR0530	R3	30	0.5	50	5.5	0.2	0.5	.55
MBR0530L	SE	30	0.5	50	5.5	0.13	0.5	.43
MBR0540	R4	40	0.5	50	5.5	0.2	0.5	.55
MBR0540L	SF	40	0.5	50	5.5	0.02	0.5	.51
MBR0560	R6	60	0.5	50	5.5	0.2	0.5	.70
MBR0580	R8	80	0.5	50	5.5	0.2	0.5	.80
B5817W	SJ	20	1.0	90	10	1.0	1.0	.45
B5818W	SK	30	1.0	90	10	1.0	1.0	.55
B5819W	SL	40	1.0	90	10	1.0	1.0	.60



Part Number	Marking Code & Pin Identity	Maximum Peak Reverse Voltage	Average Rectified Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @VR @ 25°C T <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>			
			I <sub>o</sub> @ T <sub>A</sub>				I <sub>FSM</sub>	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>
			A	°C			A	mAdc	A	V

### 0.1~1.0 AMPERE SCHOTTKY / SOT-23 / SURFACE MOUNT

RB400DS	D3A/Fig.1	40	0.5	25	3.0	0.05	0.5	0.55
RB411DS	D3E/Fig.1	40	0.5	25	3.0	0.03	0.01	0.30
RB420DS	D3B/Fig.1	40	0.1	25	1.0	0.001	0.01	0.45
RB421DS	D3C/Fig.1	40	0.1	25	1.0	0.03	0.01	0.34
RB425DS	D3L/Fig.2	40	0.1	25	1.0	0.03	0.01	0.34
RB491DS	D2E/Fig.1	25	1.0	25	3.0	0.2	1.0	0.45
RB495DS	D3Q/Fig.2	40	0.4	25	2.0	0.07	0.01	0.30

### 0.03~1.0 AMPERE SCHOTTKY / SOD-323 / SURFACE MOUNT

RB551V-30	D	30	0.5	25	2	0.1	0.1	0.36
RB751V-40	5/3J	40	0.03	25	0.2	0.0005	0.001	0.37
RB500V-40	2	40	0.1	25	1	0.001	0.01	0.45
RB501V-40	4	40	0.1	25	1	0.03	0.01	0.34
B0530WS	3	30	0.5	90	5	0.3	0.5	0.55
B5817WS	SJ	20	1.0	90	10	1.0	1.0	0.45
B5818WS	SK	30	1.0	90	10	1.0	1.0	0.55
B5819WS	SL	40	1.0	90	10	1.0	1.0	0.60

### 0.03~0.2 AMPERE SCHOTTKY / SOD-523 / SURFACE MOUNT

RB520S-30	B	30	0.2	25	1.0	0.001	0.2	0.6
RB521S-30	C	30	0.2	25	1.0	0.03	0.2	0.5
RB520S-40	D	40	0.2	25	1	0.01	0.01	0.39
RB751S-40	5	40	0.03	25	0.2	0.0005	0.001	0.37

### 0.03~0.2 AMPERE SCHOTTKY / SOD-723 / SURFACE MOUNT

RB520G-30	E	30	0.1	25	1.0	0.0005	0.01	0.45
RB521G-30	F	30	0.1	25	1.0	0.01	0.01	0.35
RB751G-40	5	40	0.03	25	0.2	0.0005	0.001	0.37

### 0.03 AMPERE SCHOTTKY / SOT-323 / SURFACE MOUNT

RB706F-40	3J/Fig.3	40	0.03	25	0.2	0.001@10V	0.001	0.37
RB715F	3D/Fig.2	40	0.03	25	0.2	0.001@10V	0.001	0.37

### 0.03 AMPERE SCHOTTKY / SOT-523 / SURFACE MOUNT

RB715W	3D/Fig.2	40	0.03	25	0.2	0.001@10V	0.001	0.37
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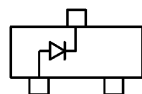


Fig.1

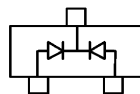


Fig. 2

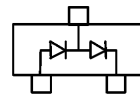


Fig. 3