

Schottky Barrier Rectifiers

150/200 mW Schottky/DO-35

Type Number	Peak Reverse Voltage	Maximum Forward Voltage Drop				Max. Reverse Current		Capacitance
	PRV	I_{FM}	V_{FM}	I_{FM}	V_{FM}	$I_R @ V_R$		$V_F=V_R=0 \quad f = 1\text{MHz}$
	V	mA	V	mA	V	μA	V	pF (TYP)
BAT 42	30	10	0.4	50	0.65	0.5	25	10
BAT 43	30	2	0.33	15	0.45	0.5	25	10
*BAT 46	100	10	0.45	250	1.0	5.0	75	10

* 150 mW. max. power dissipation @25°C

OPERATING/STORAGE TEMPERATURE -65°C to +125°C

Type Number	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T _A	Maximum Forward Voltage @ 25°C T _A	
	PRV	$I_O @ T_L^*$		I_{FM} (Surge)	I_R	I_{FM}	V_{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{PK}	V _{PK}

* Lead Temp. @ 9.5mm from body

400mW Schottky/DO-35

Type Number	Peak Reverse Voltage	Power Dissipation = 400 mW at 25°C Terminal	Surge Current	Reverse Current	Forward Voltage	Capacitance
SD101A	60	Temperature Measured At Device Body. Derate 4mW/°C Above 25°C	2*	200nA @ V _R = 50V	15mA	1.00
SD101B	50		2*	200nA @ V _R = 40V	15mA	0.95
SD101C	40		2*	200nA @ V _R = 30V	15mA	0.90
SD103A	40	Temperature Measured At Device Body. Derate 4mW/°C Above 25°C	15	5μA @ V _R = 30V	200mA	0.60
SD103B	30		15	5μA @ V _R = 20V	200mA	0.60
SD103C	20		15	5μA @ V _R = 10V	200mA	0.60
1N5711	70		2*	200nA @ V _R = 50V	15mA	1.00
1N6263	60		2*	200nA @ V _R = 50V	15mA	1.00

* 10μSEC Square Wave

OPERATING/STORAGE TEMPERATURE -55°C to +175°C

1.0 Ampere Schottky/DO-41

Type Number	Peak Reverse Voltage	Maximum Average Rectified Current	Maximum Forward Voltage Drop	Maximum Reverse Current	Capacitance
1N5817	20	1.0	90	30	1.0
1N5818	30	1.0	90	30	1.0
1N5819	40	1.0	90	30	1.0
SR105	50	1.0	100	30	1.0
SR106	60	1.0	100	30	1.0

3.0 Ampere Schottky/DO-201AD

Type Number	Peak Reverse Voltage	Maximum Average Rectified Current	Maximum Forward Voltage Drop	Maximum Reverse Current	Capacitance
1N5820	20	3.0	95	80	2.0
1N5821	30	3.0	95	80	2.0
1N5822	40	3.0	95	80	2.0
SR305	50	3.0	100	80	1.0
SR306	60	3.0	100	80	1.0

5.0 Ampere Schottky/DO-201AD

Type Number	Peak Reverse Voltage	Maximum Average Rectified Current	Maximum Forward Voltage Drop	Maximum Reverse Current	Capacitance
SR502	20	5.0	90	150	1.0
SR503	30	5.0	90	150	1.0
SR504	40	5.0	90	150	1.0
SR505	50	5.0	100	150	1.0
SR506	60	5.0	100	150	1.0

8.0 Ampere Schottky/DO-201AD

Type Number	Peak Reverse Voltage	Maximum Average Rectified Current	Maximum Forward Voltage Drop	Maximum Reverse Current	Capacitance
SD830	30	8.0	90	175	1.0
SD840	40	8.0	90	175	1.0
SD845	45	8.0	90	175	1.0

OPERATING/STORAGE TEMPERATURE -55°C to +150°C