

# 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	$\mu\text{A}$	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 <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>	
	PRV	$I_O @ T_L^*$		$I_{FM}$ (Surge)	$I_R$	$I_{FM}$	$V_{FM}$
	V <sub>PK</sub>	A <sub>AV</sub>	°C	A <sub>PK</sub>	mAdc	A <sub>PK</sub>	V <sub>PK</sub>

\* Lead Temp. @ 9.5mm from body

## 400mW Schottky/DO-35

SD101A	60	Power Dissipation = 400 mW at 25°C Terminal	2*	200nA @ V <sub>R</sub> = 50V	15mA	1.00
SD101B	50		2*	200nA @ V <sub>R</sub> = 40V	15mA	0.95
SD101C	40		2*	200nA @ V <sub>R</sub> = 30V	15mA	0.90
SD103A	40	Temperature Measured At Device Body. Derate 4mW/°C Above 25°C	15	5 $\mu$ A @ V <sub>R</sub> = 30V	200mA	0.60
SD103B	30		15	5 $\mu$ A @ V <sub>R</sub> = 20V	200mA	0.60
SD103C	20		15	5 $\mu$ A @ V <sub>R</sub> = 10V	200mA	0.60
1N5711	70		2*	200nA @ V <sub>R</sub> = 50V	15mA	1.00
1N6263	60		2*	200nA @ V <sub>R</sub> = 50V	15mA	1.00

\* 10 $\mu$ SEC Square Wave

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

## 1.0 Ampere Schottky/DO-41

1N5817	20	1.0	90	30	1.0	1.0	0.45
1N5818	30	1.0	90	30	1.0	1.0	0.55
1N5819	40	1.0	90	30	1.0	1.0	0.60
SR105	50	1.0	100	30	1.0	1.0	0.70
SR106	60	1.0	100	30	1.0	1.0	0.70

## 3.0 Ampere Schottky/DO-201AD

1N5820	20	3.0	95	80	2.0	3.0	0.475
1N5821	30	3.0	95	80	2.0	3.0	0.500
1N5822	40	3.0	95	80	2.0	3.0	0.525
SR305	50	3.0	100	80	1.0	3.0	0.720
SR306	60	3.0	100	80	1.0	3.0	0.720

## 5.0 Ampere Schottky/DO-201AD

SR502	20	5.0	90	150	1.0	5.0	0.55
SR503	30	5.0	90	150	1.0	5.0	0.55
SR504	40	5.0	90	150	1.0	5.0	0.55
SR505	50	5.0	100	150	1.0	5.0	0.67
SR506	60	5.0	100	150	1.0	5.0	0.67

## 8.0 Ampere Schottky/DO-201AD

SD830	30	8.0	90	175	1.0	8.0	0.55
SD840	40	8.0	90	175	1.0	8.0	0.55
SD845	45	8.0	90	175	1.0	8.0	0.55

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