

# SCHOTTKY BARRIER RECTIFIERS



## 150/200 mW SCHOTTKY/DO-35

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

Type Number	Max. Power Dissipation @ 25°C (mW)	Max. Junction Temp (°C)	Max. Fwd. Voltage Drop				Max. Reverse Current		Capacitance V <sub>F</sub> =V <sub>R</sub> =0 f=1MHZ pF (TYP)
			V <sub>F</sub> @ I <sub>F</sub> (V)	I <sub>F</sub> (ma)	V <sub>F</sub> @ I <sub>F</sub> (V)	I <sub>F</sub> (ma)	I <sub>R</sub> @ V <sub>R</sub> (µa)	V <sub>R</sub> (V)	
BAT 42	200	125	0.4	10	0.65	50	0.5	25	10
BAT 43	200	125	0.33	2	0.45	15	0.5	25	10
BAT 46	150	125	0.45	10	1.0	250	5.0	75	10

OPERATING/STORAGE TEMPERATURE RANGE -65°C to +150°C

TYPE	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 <sub>o</sub> @ T <sub>L</sub> *		I <sub>FM</sub> (Surge)	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>
	V <sub>PK</sub>	A <sub>AV</sub>	°C	A <sub>PK</sub>	mAdc	A <sub>PK</sub>	V <sub>PK</sub>

T<sub>L</sub>\* Lead Temp. @ 3/8" From Body

## 400mW SCHOTTKY/DO-35

OPERATING/STORAGE TEMPERATURE RANGE -55°C to +200°C

SD101A	60	Power Dissipation = 400 mW at 25°C Terminal Temperature Measured At Device Body. Derate 4mw/°C Above 25°C	2**	200nA @ VR = 50V	15mA	1.0
SD101B	50		2**	200nA @ VR = 40V	15mA	0.95
SD101C	40		2**	200nA @ VR = 30V	15mA	0.90
SD103A	40		15	5µA @ VR = 30V	200mA	0.60
SD103B	30		15	5µA @ VR = 20V	200mA	0.60
SD103C	20		15	5µA @ VR = 10V	200mA	0.60
1N5711	70		2**	200nA @ VR = 50V	15mA	1.0
1N6263	60		2**	200nA @ VR = 50V	15mA	1.0

\*\*10 µSEC Square Wave

## 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	.55
SR503	30	5.0	90	150	1.0	5.0	.55
SR504	40	5.0	90	150	1.0	5.0	.55
SR505	50	5.0	100	150	1.0	5.0	.67
SR506	60	5.0	100	150	1.0	5.0	.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