



SCHOTTKY BARRIER RECTIFIER

	V _{RRM}	I _{F(AV)}	V _{RMS}	V _{DC}	I _{FRM}	I _{FSM}	R _C	V _F	I _R		Package
	Volts	Amp.	Volts	Volts	Amp.	Amp.	°C/W	Volts	m Amp.		
Part No							Note (3)	Note (1)	Ta=25°C	Ta=100°C	
SR735	35	7.5	25	35	15	150	2.5	0.65	1	15	TO-220AC
SR745	45	7.5	32	45	15	150	2.5	0.65	1	15	TO-220AC
SR750	50	7.5	35	50	15	150	2.5	0.75	1	50	TO-220AC
SR760	60	7.5	42	60	15	150	2.5	0.75	1	50	TO-220AC
SR820	20	8	14	20	16	150	2.5	0.65	1	15	TO-220AC
SR830	30	8	21	30	16	150	2.5	0.65	1	15	TO-220AC
SR840	40	8	28	40	16	150	2.5	0.65	1	15	TO-220AC
SR850	50	8	35	50	16	150	2.5	0.75	1	15	TO-220AC
SR860	60	8	42	60	16	150	2.5	0.75	1	50	TO-220AC
SR880	80	8	57	80	16	150	2.5	0.80	1	50	TO-220AC
SR8A0	100	8	71	100	16	150	2.5	0.85	1	50	TO-220AC
SR1020	20	10	14	20	20	150	2.5	0.70	1	30	TO-220AC
SR1030	30	10	21	30	20	150	2.5	0.70	1	30	TO-220AC
SR1040	40	10	28	40	20	150	2.5	0.70	1	30	TO-220AC
SR1050	50	10	35	50	20	150	2.5	0.80	1	30	TO-220AC
SR1060	60	10	42	60	20	150	2.5	0.80	1	30	TO-220AC
SRF735	35	7.5	25	35	15	150	5	0.65	1	15	TO-220ACFP
SRF745	45	7.5	32	45	15	150	5	0.65	1	15	TO-220ACFP
SRF750	50	7.5	35	50	15	150	5	0.75	1	50	TO-220ACFP
SRF760	60	7.5	42	60	15	150	5	0.75	1	50	TO-220ACFP
SRF820	20	8	14	20	16	150	5	0.65	1	15	TO-220ACFP
SRF830	30	8	21	30	16	150	5	0.65	1	15	TO-220ACFP
SRF840	40	8	28	40	16	150	5	0.65	1	15	TO-220ACFP
SRF850	50	8	35	50	16	150	5	0.75	1	15	TO-220ACFP
SRF860	60	8	42	60	16	150	5	0.75	1	50	TO-220ACFP
SRF880	80	8	57	80	16	150	5	0.80	1	50	TO-220ACFP
SRF8A0	100	8	71	100	16	150	5	0.85	1	50	TO-220ACFP
SRF1020	20	10	14	20	20	150	5	0.70	1	30	TO-220ACFP
SRF1030	30	10	21	30	20	150	5	0.70	1	30	TO-220ACFP
SRF1040	40	10	28	40	20	150	5	0.70	1	30	TO-220ACFP
SRF1050	50	10	35	50	20	150	5	0.80	1	30	TO-220ACFP
SRF1060	60	10	42	60	20	150	5	0.80	1	30	TO-220ACFP
SR1535CT	35	15	25	35	15	150	2.5	0.65	1	15	TO-220AB
SR1545CT	45	15	32	45	15	150	2.5	0.65	1	15	TO-220AB
SR1550CT	50	15	35	50	15	150	2.5	0.75	1	50	TO-220AB
SR1560CT	60	15	42	60	15	150	2.5	0.75	1	50	TO-220AB
SR1620CT	20	16	14	20	32	150	3	0.65	1	30	TO-220AB
SR1630CT	30	16	21	30	32	150	3	0.65	1	30	TO-220AB
SR1640CT	40	16	28	40	32	150	3	0.65	1	30	TO-220AB
SR1650CT	50	16	35	50	32	150	3	0.75	1	50	TO-220AB
SR1660CT	60	16	42	60	32	150	3	0.75	1	50	TO-220AB
SR1680CT	80	16	57	80	32	150	3	0.80	1	50	TO-220AB
SR16A0CT	100	16	71	100	32	150	3	0.85	1	50	TO-220AB
SR2020CT	20	20	14	20		150	3	0.70	1	30	TO-220AB
SR2030CT	30	20	21	30		150	3	0.70	1	30	TO-220AB
SR2040CT	40	20	28	40		150	3	0.70	1	30	TO-220AB
SR2050CT	50	20	35	50		150	3	0.80	1	50	TO-220AB
SR2060CT	60	20	42	60		150	3	0.80	1	50	TO-220AB

Notes:

- (1) Pulse test: 300µs pulse width, 1% duty cycle at (a) 1.0A & (b) 3.1A
- (2) Thermal resistance from junction to lead vertical P.C.B mounted, 9.5mm lead length or from junction to case
- (3) Measured at 1 MHz and reverse voltage of 4.0 volts
- (4) T_J, T_{STG} is -65°C to +125°C for all the devices

TO-220AC



TO-220AC FP



TO-220AB





SCHOTTKY BARRIER RECTIFIER

	V _{RRM}	I _{F(AV)}	V _{RMS}	V _{DC}	I _{FRM}	I _{FSM}	R _C	V _F	I _R		Package
	Volts	Amp.	Volts	Volts	Amp.	Amp.	°C/W	Volts	m Amp.		
Part No							Note (3)	Note(1)	Ta=25°C	Ta=100°C	
SRF1535CT	35	15	25	35	15	150	5	0.65	1	15	TO-220ABFP
SRF1540CT	45	15	32	45	15	150	5	0.65	1	15	TO-220ABFP
SRF1550CT	50	15	35	50	15	150	5	0.75	1	50	TO-220ABFP
SRF1560CT	60	15	42	60	15	150	5	0.75	1	50	TO-220ABFP
SRF1620CT	20	16	14	20	32	150	5	0.65	1	30	TO-220ABFP
SRF1630CT	30	16	21	30	32	150	5	0.65	1	30	TO-220ABFP
SRF1640CT	40	16	28	40	32	150	5	0.65	1	30	TO-220ABFP
SRF1650CT	50	16	35	50	32	150	5	0.75	1	50	TO-220ABFP
SRF1660CT	60	16	42	60	32	150	5	0.75	1	50	TO-220ABFP
SRF1680CT	80	16	57	80	32	150	5	0.80	1	50	TO-220ABFP
SRF16A0CT	100	16	71	100	32	150	5	0.85	1	50	TO-220ABFP
SRF2020CT	20	20	14	20		150	5	0.70	1	30	TO-220ABFP
SRF2030CT	30	20	21	30		150	5	0.70	1	30	TO-220ABFP
SRF2040CT	40	20	28	40		150	5	0.70	1	30	TO-220ABFP
SRF2050CT	50	20	35	50		150	5	0.80	1	50	TO-220ABFP
SRF2060CT	60	20	42	60		150	5	0.80	1	50	TO-220ABFP

TO-220AB FP



	V _R	I _F	V _F	I _R	P _{TOT}	I _{FSM}	t _{rr}	T _j	C _j	R _{ja}	Package
	Volts	mA	I _F =100mA	uA	mW	mA	ns	°C	pF	K/W	Glass
BAT85	30	200	0.8	2	200	600	5	125	10	300	DO-35

Notes:

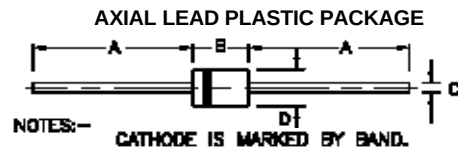
- (1) Pulse test: 300µs pulse width, 1% duty cycle at (a) 1.0A & (b) 3.1A
- (2) Thermal resistance from junction to lead vertical P.C.B mounted, 9.5mm lead length or from junction to case
- (3) Measured at 1 MHz and reverse voltage of 4.0 volts
- (4) T_J, T_{STG} is -65°C to +125°C for all the devices



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	V _{RRM}	I _{F(AV)}	V _{RMS}	V _{DC}	V _{RSM}	I _{FSM}	R _C	R _{JA}	R _{JL}	V _F	V _F	I _R	C _J	Package	
Part No	Volts	Amp.	Volts	Volts	Volts	Amp.	°C/W	°C/W	°C/W	Volts		m Amp.		pF	
										Note (1)		Ta=25°C	Ta=100°C	Note (3)	
								Note(2)							
1N17	20	1	14	20	24	25		50	15	0.45@1A	0.75@3.1A	0.5	10	110	R-1
1N18	30	1	21	30	36	25		50	15	0.55@1A	0.875@3.1A	0.5	10	110	R-1
1N19	40	1	28	40	48	25		50	15	0.6@1A	0.9@3.1A	0.5	10	110	R-1
1S20	20	1	14	20		40		50		0.55@1A		0.5	10	110	R-1
1S30	30	1	21	30		40		50		0.55@1A		0.5	10	110	R-1
1S40	40	1	28	40		40		50		0.55@1A		0.5	10	110	R-1
1S50	50	1	35	50		40		50		0.7@1A		0.5	10	110	R-1
1S60	60	1	42	60		40		50		0.7@1A		0.5	10	110	R-1
1S80	80	1	57	80		40		50		0.75@1A		0.5	10	110	R-1
1SA0	100	1	71	100		40		50		0.83@1A		0.5	10	110	R-1
1N5817	20	1	14	20	24	25		50	15	0.45@1A	0.75@3.1A	0.5	10	110	DO-41
1N5818	30	1	21	30	36	25		50	15	0.55@1A	0.875@3.1A	0.5	10	110	DO-41
1N5819	40	1	28	40	48	25		50	15	0.6@1A	0.9@3.1A	0.5	10	110	DO-41
SR120	20	1	14	20		40		50	15	0.55@1A		0.5	10	110	DO-41
SR130	30	1	21	30		40		50	15	0.55@1A		0.5	10	110	DO-41
SR140	40	1	28	40		40		50	15	0.55@1A		0.5	10	110	DO-41
SR150	50	1	35	50		40		50	15	0.7@1A		0.5	10	110	DO-41
SR160	60	1	42	60		40		50	15	0.7@1A		0.5	10	110	DO-41
SR180	80	1	57	80		40		50	15	0.75@1A		0.5	10	110	DO-41
SR1100	100	1	71	100		40		50	15	0.83@1A		0.5	10	110	DO-41
SR13	30	1.5	21	30		40		50	15	0.55@1A		0.5	10	110	DO-41
SR14	40	1.5	28	40		40		50	15	0.55@1A		0.5	10	110	DO-41
SR16	60	1.5	42	60		40		50	15	0.6@1A		0.5	10	110	DO-41
SR19	90	1.5	64	90		40		50	15	0.81@1A		0.5	10	110	DO-41
SR0620	20	6	14	20		20		50	15	0.55@1A		0.5	10		DO-41
SR0630	30	6	21	30		20		50	15	0.55@1A		0.5	10		DO-41
SR0640	40	6	28	40		20		50	15	0.55@1A		0.5	10		DO-41
SR220	20	2	14	20		50	35			0.55@1A		1	10	170	DO-15
SR230	30	2	21	30		50	35			0.55@1A		1	10	170	DO-15
SR240	40	2	28	40		50	35			0.55@1A		1	10	170	DO-15
SR250	50	2	35	50		50	35			0.7@1A		1	10	170	DO-15
SR260	60	2	42	60		50	35			0.7@1A		1	10	170	DO-15
SR280	80	2	57	80		50	35			0.85@1A		1	10	170	DO-15
SR2100	100	2	71	100		50	35			0.85@1A		1	10	170	DO-15
1N5820	20	3	14	20	24	80		40	10	0.475@1A	0.85@3.1A	1.5	20		DO-201AD
1N5821	30	3	21	30	36	80		40	10	0.5@1A	0.9@3.1A	1.5	20		DO-201AD
1N5822	40	3	28	40	48	80		40	10	0.525@1A	0.95@3.1A	1.5	20		DO-201AD
SR320	20	3	14	20		80		40	10	0.55@1A		1.5	20	250	DO-201AD
SR330	30	3	21	30		80		40	10	0.55@1A		1.5	20	250	DO-201AD
SR340	40	3	28	40		80		40	10	0.55@1A		1.5	20	250	DO-201AD
SR350	50	3	35	50		80		40	10	0.7@1A		1.5	10	160	DO-201AD
SR360	60	3	42	60		80		40	10	0.7@1A		1.5	10	160	DO-201AD
SR380	80	3	57	80		80		40	10	0.85@1A		1.5	10	160	DO-201AD
SR3100	100	3	71	100		80		40	10	0.85@1A		1.5	10	160	DO-201AD
SR520	20	5	14	20		150		25	8	0.55@1A		1	50	500	DO-201AD
SR530	30	5	21	30		150		25	8	0.55@1A		1	50	500	DO-201AD
SR540	40	5	28	40		150		25	8	0.55@1A		1	50	500	DO-201AD
SR550	50	5	35	50		150		25	8	0.7@1A		1	25	400	DO-201AD
SR560	60	5	42	60		150		25	8	0.7@1A		1	25	400	DO-201AD
SR580	80	5	57	80		150		25	8	0.8@1A		1.5	25	400	DO-201AD
SR5100	100	5	71	100		150		25	8	0.85@1A		1.5	25	400	DO-201AD

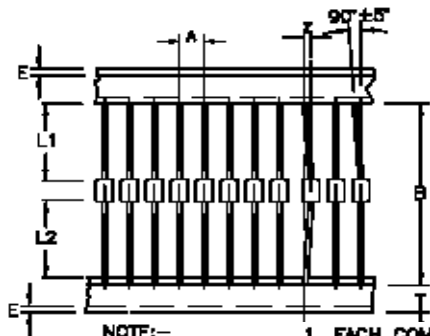
- Notes:
- (1) Pulse test: 300µs pulse width, 1% duty cycle at (a) 1.0A & (b) 3.1A
 - (2) Thermal resistance from junction to lead vertical P.C.B mounted, 9.5mm lead length or from junction to case
 - (3) Measured at 1 MHz and reverse voltage of 4.0 volts
 - (4) TJ, TSTG is -65°C to +125°C for all the devices



DEVICE	A		B		C		D	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
R-1 PLASTIC	20	—	2.9	3.5	0.5	0.6	2.3	2.8
DO-35 GLASS	27.5	—	—	3.8	—	0.52	—	2.0
DO-41 PLASTIC	25.4	—	4.10	5.20	0.71	0.85	2.0	2.7
DO-15 PLASTIC	25.4	—	5.6	7.6	0.7	0.8	2.6	3.6
DO-201AD PLASTIC	25.4	—	7.2	9.5	1.22	1.32	4.8	5.3

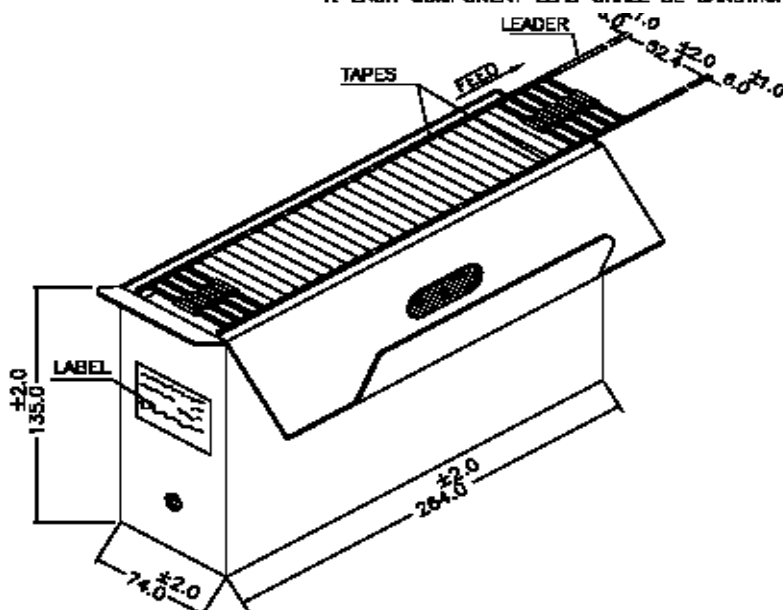
AXIAL LEAD TAPING

COMPONENT OUTLINE	COMPONENT PITCH A	INNER TAPE PITCH B		CUMULATIVE PITCH TOLERANCE
	$\pm 0.5\text{mm} (.020")$	$\pm 0.5\text{mm} (.020")$	$\pm 1.5\text{mm} (.059")$	
DO-35	5.0mm	—	52.4mm	2.0mm/10 PITCH
R-1	5.0mm	—	52.4mm	2.0mm/10 PITCH
DO-41	5.0mm	—	52.4mm	2.0mm/10 PITCH
DO-15	5.0mm	—	52.4mm	2.0mm/10 PITCH
DO-201AD	10.0mm	—	52.4mm	2.0mm/10 PITCH



TAPE REEL DIMENSIONS

ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(Inch)
COMPONENT ALIGNMENT	Z	1.2 MAX.	0.048 MAX.
TAPE WIDTH	T	6.0 ± 0.4	0.236 ± 0.016
EXPOSED ADHESIVE	E	0.8 MAX.	0.032 MAX.
BODY ACCENTRICITY	(L1-L2)	1.0 MAX.	0.040 MAX.



Anti-Static plastic tubes

Case Type	Box Size	Quantity
	length in mm	
TO-220AB/AC	530	50
TO-220AB/ACFP	530	50

Ammunition Packing

Package	Standard pack		Weight
	Box nos	Carton nos.	
R-1	5000	50000	13.36
DO-35(Glass)	5000	90000	16.40
DO-41	5000	50000	21.00
DO-15	3000	30000	14.76
DO-201AD	1000	10000	14.00
DO-201AD	1000	10000	14.00