

SURFACE MOUNT DEVICES FOR HYBRID APPLICATIONS

PLASTIC MATERIAL USED CARRIES UL 94V-0
 OPERATING TEMPERATURE RANGE
 20V to 45v : -65°C to +125°C
 50v to 60v : -65°C to +150°C
 STORAGE TEMPERATURE -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 @ P _{RV} @ 25°C T _A	Maximum Forward Voltage @ 25°C T _A	
	P _{RV}	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{PK}	V _{PK}

0.2 AMPERE-SCHOTTKY/SOT-23 (CASE 38)



BAT54	30	0.2	-	0.3	2.0	0.2	1.0
BAT54A	30	0.2	-	0.3	2.0	0.2	1.0
BAT54C	30	0.2	-	0.3	2.0	0.2	1.0
BAT54S	30	0.2	-	0.3	2.0	0.2	1.0

NOTE : OPERATING TEMPERATURE -55°C to +125°C , STORAGE TEMPERATURE -55°C to +150°C
 Suffix " A " = Common Anode

1.0 AMPERE-SCHOTTKY/MELF (CASE 1)



SM5817	20	1.0	90	25	1.0	1.0	0.45
SM5818	30	1.0	90	25	1.0	1.0	0.55
SM5819	40	1.0	90	25	1.0	1.0	0.60

1.0 AMPERE-SCHOTTKY/MELF (CASE 1)



SM120	20	1.0	75	40	1.0	1.0	0.55
SM130	30	1.0	75	40	1.0	1.0	0.55
SM140	40	1.0	75	40	1.0	1.0	0.55
SM150	50	1.0	100	40	1.0	1.0	0.70
SM160	60	1.0	100	40	1.0	1.0	0.70

1.0 AMPERE-SCHOTTKY/DO-214AC (CASE 2)



FM5817	20	1.0	90	25	1.0	1.0	0.45
FM5818	30	1.0	90	25	1.0	1.0	0.55
FM5819	40	1.0	90	25	1.0	1.0	0.60

1.0 AMPERE-SCHOTTKY/DO-214AC (CASE 2)



FM120	20	1.0	75	40	1.0	1.0	0.55
FM130	30	1.0	75	40	1.0	1.0	0.55
FM140	40	1.0	75	40	1.0	1.0	0.55
FM150	50	1.0	100	40	1.0	1.0	0.70
FM160	60	1.0	100	40	1.0	1.0	0.70
FM180	80	1.0	100	40	1.0	1.0	0.85
FM1100	100	1.0	100	40	1.0	1.0	0.85

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	P _{RV}	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{PK}	V _{PK}

2.0 AMPERE-SCHOTTKY/DO-214AA (CASE 3)



FM220	20	2.0	75	40	1.0	2.0	0.55
FM230	30	2.0	75	40	1.0	2.0	0.55
FM240	40	2.0	75	40	1.0	2.0	0.55
FM250	50	2.0	100	40	1.0	2.0	0.70
FM260	60	2.0	100	40	1.0	2.0	0.70
FM280	80	2.0	100	40	1.0	2.0	0.85
FM2100	100	2.0	100	40	1.0	2.0	0.85

3.0 AMPERE-SCHOTTKY/DO-214AB (CASE 4)



FM5820	20	3.0	95	80	2.0	3.0	0.475
FM5821	30	3.0	95	80	2.0	3.0	0.500
FM5822	40	3.0	95	80	2.0	3.0	0.525

3.0 AMPERE-SCHOTTKY/DO-214AB (CASE 4)



FM320	20	3.0	75	80	2.0	3.0	0.55
FM330	30	3.0	75	80	2.0	3.0	0.55
FM340	40	3.0	75	80	2.0	3.0	0.55
FM350	50	3.0	100	80	2.0	3.0	0.75
FM360	60	3.0	100	80	2.0	3.0	0.75
FM380	80	3.0	100	80	2.0	3.0	0.85
FM3100	100	3.0	100	80	2.0	3.0	0.85

8.0 AMPERE-SCHOTTKY/D2PAK (CASE 42)



SR820S	20	8.0	*90	150	5.0	8.0	0.65
SR830S	30	8.0	*90	150	5.0	8.0	0.65
SR835S	35	8.0	*90	150	5.0	8.0	0.65
SR840S	40	8.0	*90	150	5.0	8.0	0.65
SR845S	45	8.0	*90	150	5.0	8.0	0.65
SR850S	50	8.0	*115	150	5.0	8.0	0.75
SR860S	60	8.0	*115	150	5.0	8.0	0.75

NOTE : 1.Suffix " R " for Reverse Polarity.
 2. " * " Case Temperature Measured At Metal Tap.

16 AMPERE-SCHOTTKY/D2PAK (CASE 42)



SR1620CS	20	16	90	150	10	8.0	0.65
SR1630CS	30	16	90	150	10	8.0	0.65
SR1635CS	35	16	90	150	10	8.0	0.65
SR1640CS	40	16	90	150	10	8.0	0.65
SR1645CS	45	16	90	150	10	8.0	0.65
SR1650CS	50	16	115	150	10	8.0	0.75
SR1660CS	60	16	115	150	10	8.0	0.75