

OLTAGE	ount Schottky Ba 40 to 200 Volt	CURRENT	3 Ampere	SMC
FEATURES	3			
Flammability	age has Underwriters y Classification 94V-O mounted applications		ze board space	
<ul><li>Low power le</li><li>High surge</li></ul>	oss, high efficiency			
	ing compound as per II		ď	
MECHANI	CAL DATA			
<ul> <li>Terminals : \$</li> <li>Polarity : Co</li> <li>Standard path</li> </ul>	EC DO-214AB molded p Solder plated, solderab olor band denotes cath ackaging : 16mm tape ( ight : 0.2325 grams	ole per MIL-STD-7 ode end	50, Method 2026	

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER			MB34	MB34A	MB35	MB36	MB38	MB39	MB310	MB315	MB320	UNITS
Maximum Recurrent Peak Reverse Voltage			40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage			28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage			40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See figure 1)			3								А	
Peak Forward Surge Current : 8.3ms single half sine-wa superimposed on rated load	I <sub>FSM</sub>	100								A		
aximum Forward Voltage at 3A (Note 1)		V <sub>F</sub>	0.7	0.7 0.74 0.8 0.9		.9	V					
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_=25°C	I <sub>R</sub>					0.05				mA	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_=100°C	I <sub>R</sub>		2 1					mA			
Typical Junction Capacitance (V <sub>R</sub> =4V,1MHz)		CJ	140								pF	
Typical Thermal Resistance (Note 2) (Note 3)		R <sub>ejl</sub> R <sub>eja</sub>	15 110								°C / W	
Operating Junction and Storage Temperature Range			-55 to +150 -65 to +175							°C		

NOTES :

1. Pulse Test with PW =300µsec, 1% Duty Cycle.

2. Mounted on a FR4 PCB, single-sided copper, with  $100 \text{cm}^2$  copper pad area.

3. Mounted on a FR4 PCB, single-sided copper, mini pad.











#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
MB34	SMC	3K pcs / 13" reel	MB34
MB34A	SMC	3K pcs / 13" reel	MB34A
MB35	SMC	3K pcs / 13" reel	MB35
MB36	SMC	3K pcs / 13" reel	MB36
MB38	SMC	3K pcs / 13" reel	MB38
MB39	SMC	3K pcs / 13" reel	MB39
MB310	SMC	3K pcs / 13" reel	MB310
MB315	SMC	3K pcs / 13" reel	MB315
MB320	SMC	3K pcs / 13" reel	MB320

### Packaging Information & Mounting Pad Layout





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