

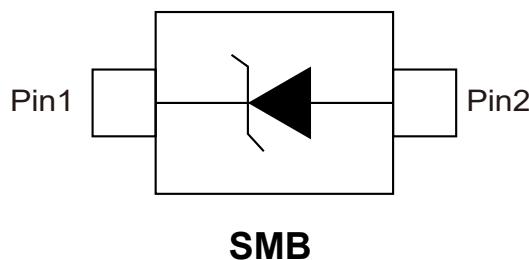
1. Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Low profile package
- built-in strain relief ,ideal for automated placement
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

2. Mechanical Data

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Weight: 0.003ounce,0.093 gram

3. Pinning information





4. Maximum Ratings And Electrical Characteristics

Parameter	Symbols	SS 32B	SS 33B	SS 34B	SS 35B	SS 36B	SS 38B	SS 310B	SS 315B	SS 320B	Volts		
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts		
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	57	71	105	140	Volts		
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts		
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)	$I_{(AV)}$	3								Amps			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80								Amps			
Maximum instantaneous forward voltage at 3.0 A (Note 1)	V_F	0.55		0.75		0.85		0.9		0.95			
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	$T_A=25^\circ C$ $T_A=100^\circ C$	I_R	0.2						mA				
Typical junction capacitance (Note 3)			20		10						pF		
Typical thermal resistance (Note 2)		$R_{\theta JA}$	55						$^\circ C/W$				
		$R_{\theta JL}$	17						$^\circ C/W$				
Junction temperature range		T_J	-65 to 150						$^\circ C$				
Storage temperature range		T_{STG}	-65 to 150						$^\circ C$				

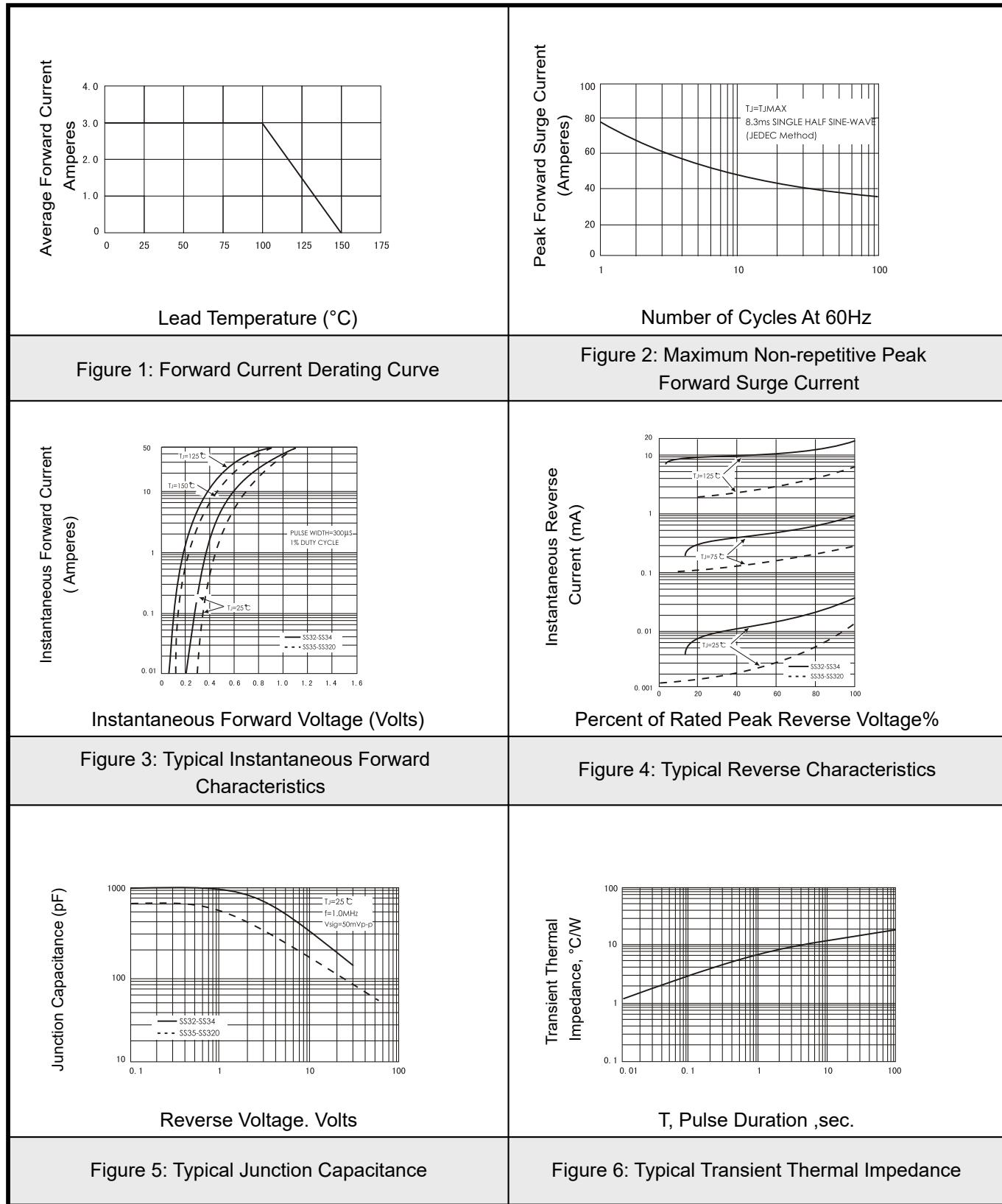
(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.)

Notes:

1. Pulse test: 300μs pulse width, 1% duty cycle
2. P.C.B. mounted 0.55 X 0.55"(14 X 14mm) copper pad areas
3. Measured at 1MHz and reverse voltage of 4.0 volts

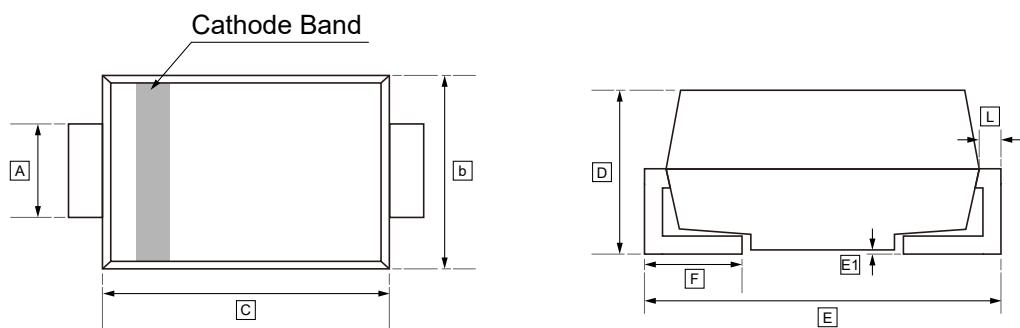


5.Typical characteristic





6.SMB Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	b	C	D	E	E1	F	L
Min	1.95	3.30	4.06	2.13	5.10	0	0.76	0.152
Max	2.20	3.94	4.57	2.44	5.59	0.2	1.52	0.305



7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS32B	SS32	SMB	3000	Tape and reel
UMW SS33B	SS33	SMB	3000	Tape and reel
UMW SS34B	SS34	SMB	3000	Tape and reel
UMW SS35B	SS35	SMB	3000	Tape and reel
UMW SS36B	SS36	SMB	3000	Tape and reel
UMW SS38B	SS38	SMB	3000	Tape and reel
UMW SS310B	SS310	SMB	3000	Tape and reel
UMW SS315B	SS315	SMB	3000	Tape and reel
UMW SS320B	SS320	SMB	3000	Tape and reel



8.Disclaimer

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