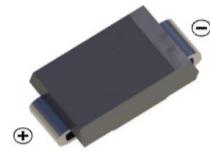
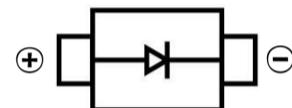


Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250 °C/10 seconds at terminals



DO-214AB/SMC



Mechanical Data

Case : JEDEC DO-214AB/SMC molded plastic body
 Terminals : Solderable per MIL-STD-750,Method 2026
 Polarity : Color band denotes cathode end Mounting Position : Any
 Weight : 0.0077 ounce, 0.22 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS32C	SS33C	SS34C	SS35C	SS36C	SS38C	SS310C	SS3150C	SS3200C	UNITS					
Marking Code																
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V					
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V					
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V					
Maximum average forward rectified current	I _(AV)	3.0								A						
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}	80								A						
Maximum instantaneous forward voltage at 3.0A	V _F	0.55		0.70		0.85		0.95		V						
Maximum DC reverse current TA=25°C at rated DCblocking voltage TA=100°C	I _R	0.5			3.0			0.3			mA					
Typical junction capacitance (NOTE 1)	C _J	450			350			350			pF					
Typical thermal resistance (NOTE 2)	R _{θJA}	50								°C/W						
Operating junction temperature range	T _J	-55 to +150								°C						
Storage temperature range	T _{STG}	-55 to +150								°C						

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 2.0"x2.0"(5.0x5.0cm) copper pad areas

Typical Characteristics

Fig.1 Forward Current Derating Curve

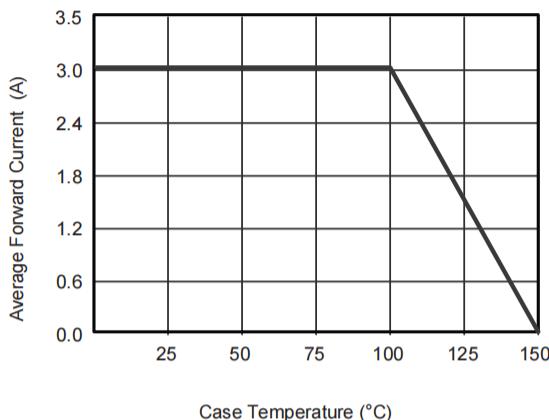


Fig.2 Typical Reverse Characteristics

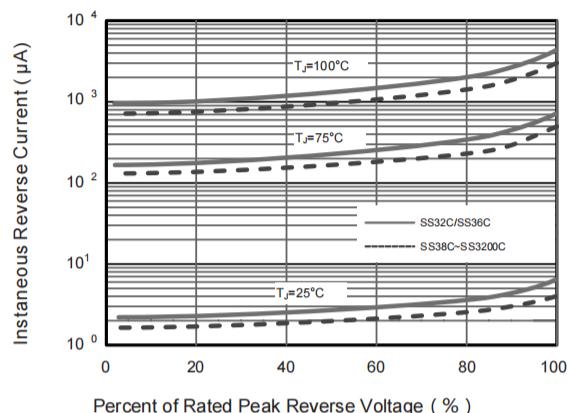


Fig.3 Typical Forward Characteristic

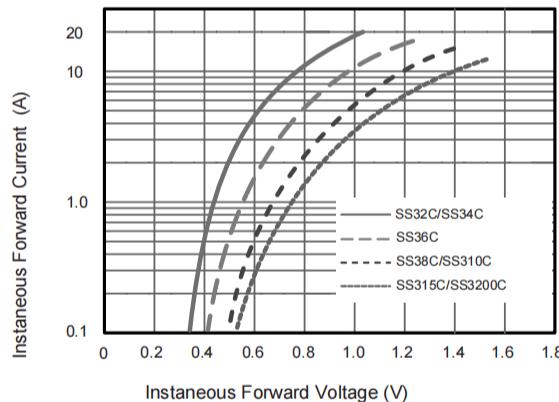


Fig.4 Typical Junction Capacitance

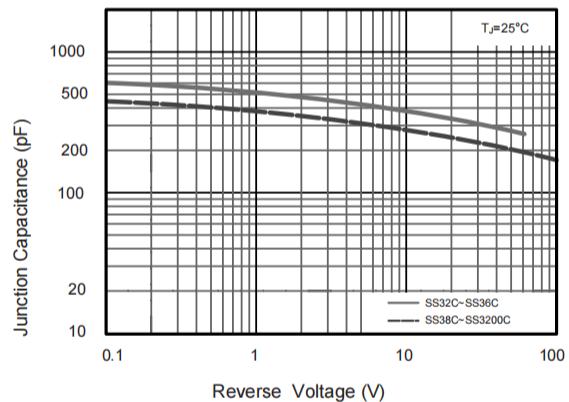


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

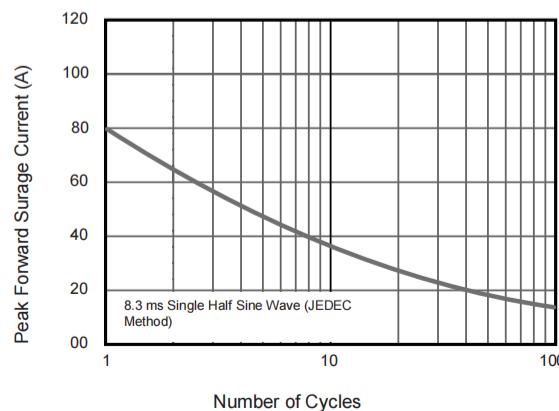
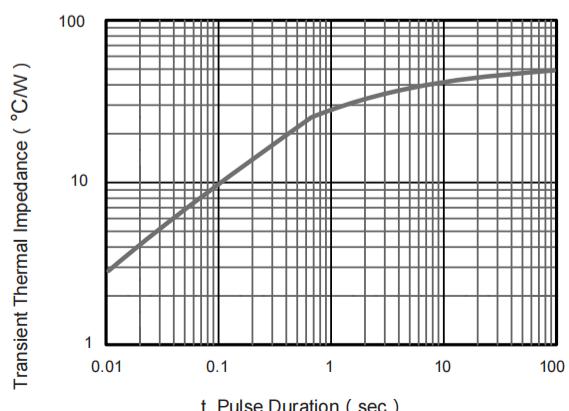
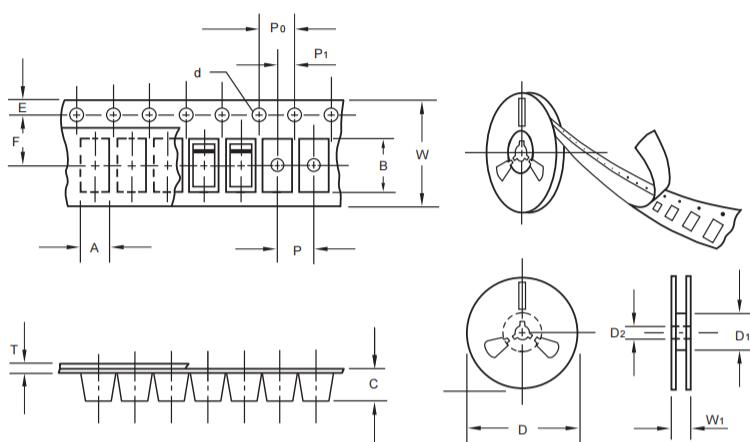


Fig.6- Typical Transient Thermal Impedance



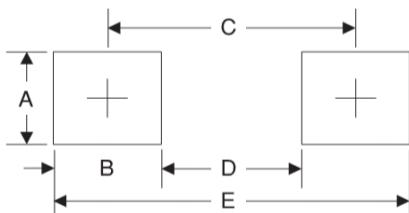
Packing information



unit:mm			
Item	Symbol	Tolerance	SMC
Carrier width	A	0.1	6.15
Carrier length	B	0.1	8.41
Carrier depth	C	0.1	2.42
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D ₁	min	50.00
Feed hole diameter	D ₂	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	7.50
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P ₀	0.1	4.00
Embossment center	P ₁	0.1	2.00
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	16.00
Reel width	W ₁	1.0	16.50

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	4.3	0.170
B	4.1	0.160
C	7.9	0.311
D	3.8	0.150
E	12	0.472