

S-SM340A

Schottky Barrier Rectifiers

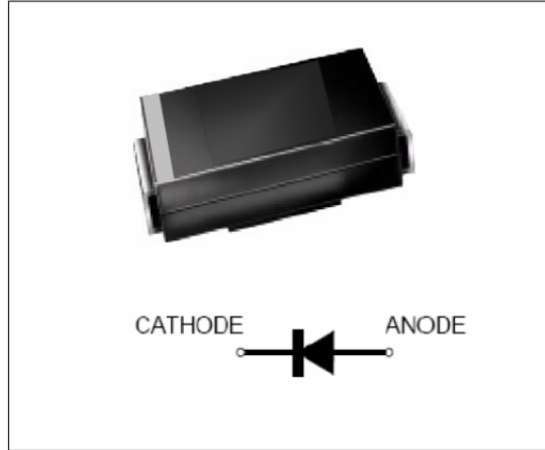
Reverse Voltage 40V Forward Current 3.0A

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss,high efficiency
- * For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- * Guardring for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals
- * S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

Mechanical Data

Case: JEDEC DO-214AC,
molded plastic over glass body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.0023 oz., 0.065 g
Handling precaution:None



We declare that the material of product compliance with ROHS requirements

1.Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	S-SM340A	Unit
device marking code		S34	
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current at TC= 75°C	$I_{F(AV)}$	3.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80	A
Typical thermal resistance (Note 1)	R θ JA	175	°C/W
	R θ JC	50	
Operating junction and storage temperature range	T _J , T _{STG}	-40 to +150	°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	S-SM340A	Unit
Maximum instantaneous forward voltage at 3.0A	V_F	0.55	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TJ = 100°C	I _R	0.5	mA
		10.0	
Typical junction capacitance at 4.0V, 1MHz	C _J	260	PF

NOTES:

- FR-4 Board ,Heat sinks with single-sided copper foil , copper foil thickness 50μm 1.77* 1.60 * 2

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2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

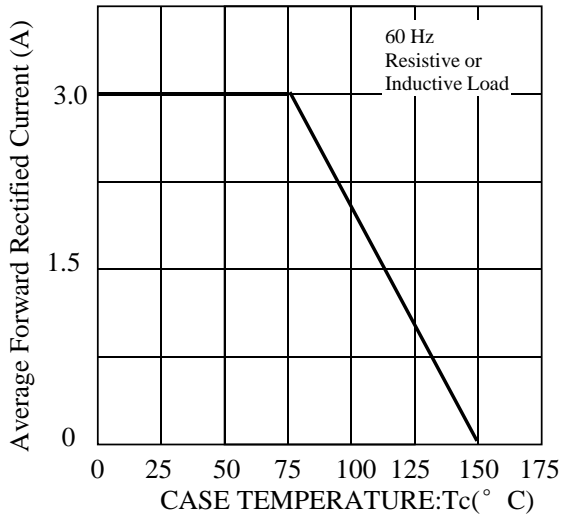


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

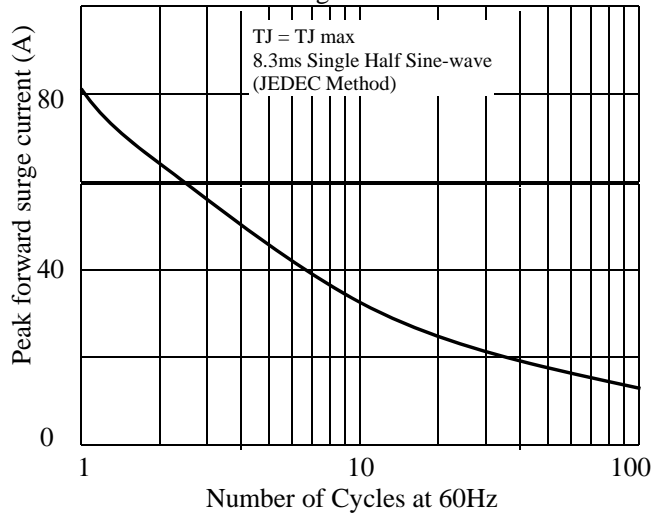


Fig 3. - Typical Instantaneous Forward Characteristics

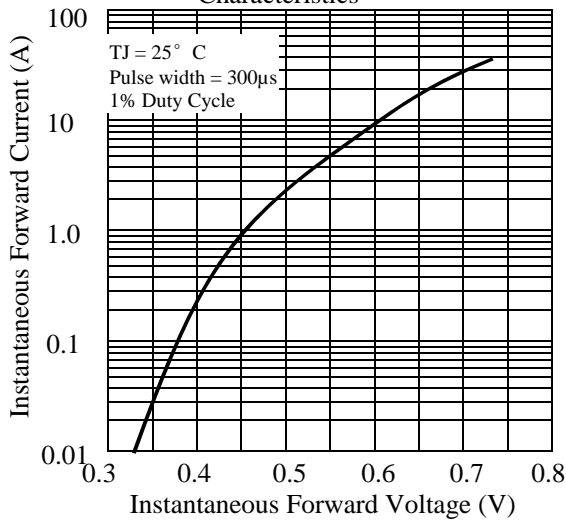


Fig 4. - Typical Reverse Characteristics

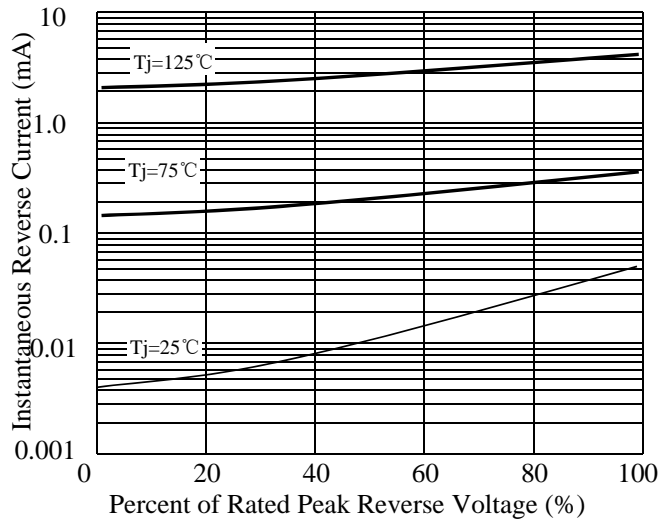


Fig 5. - typical transient thermal impedance

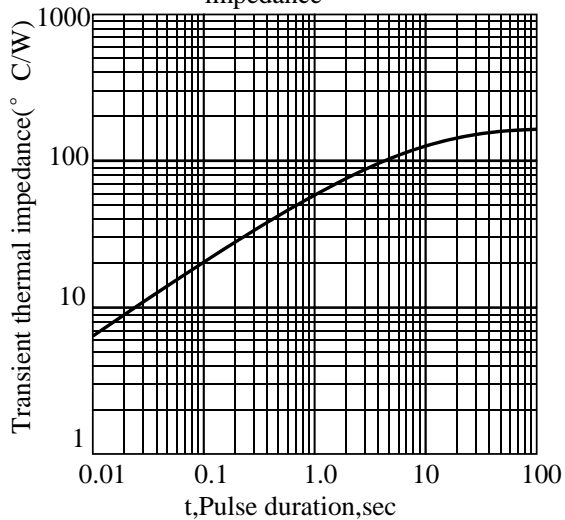
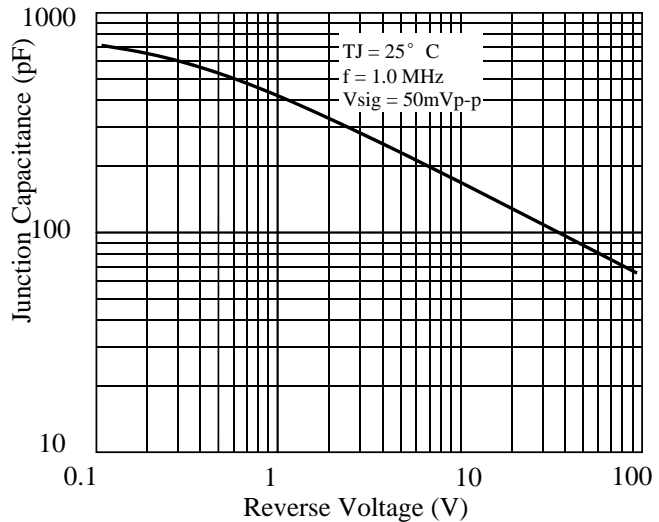
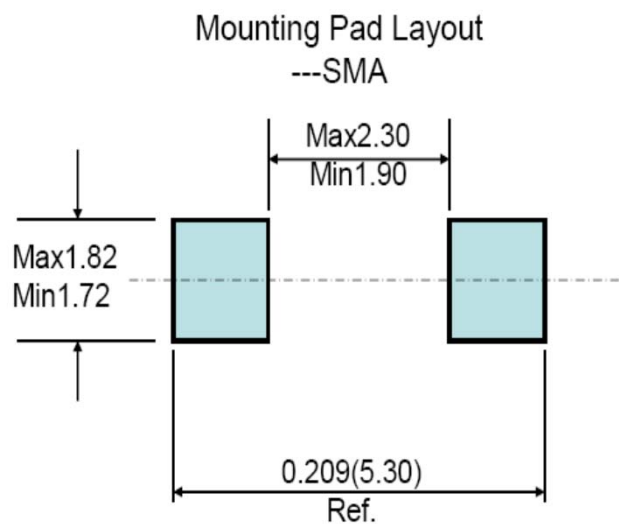
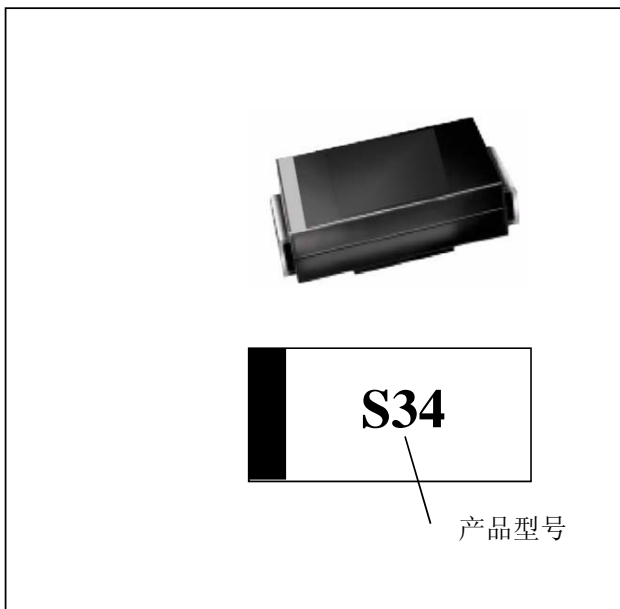
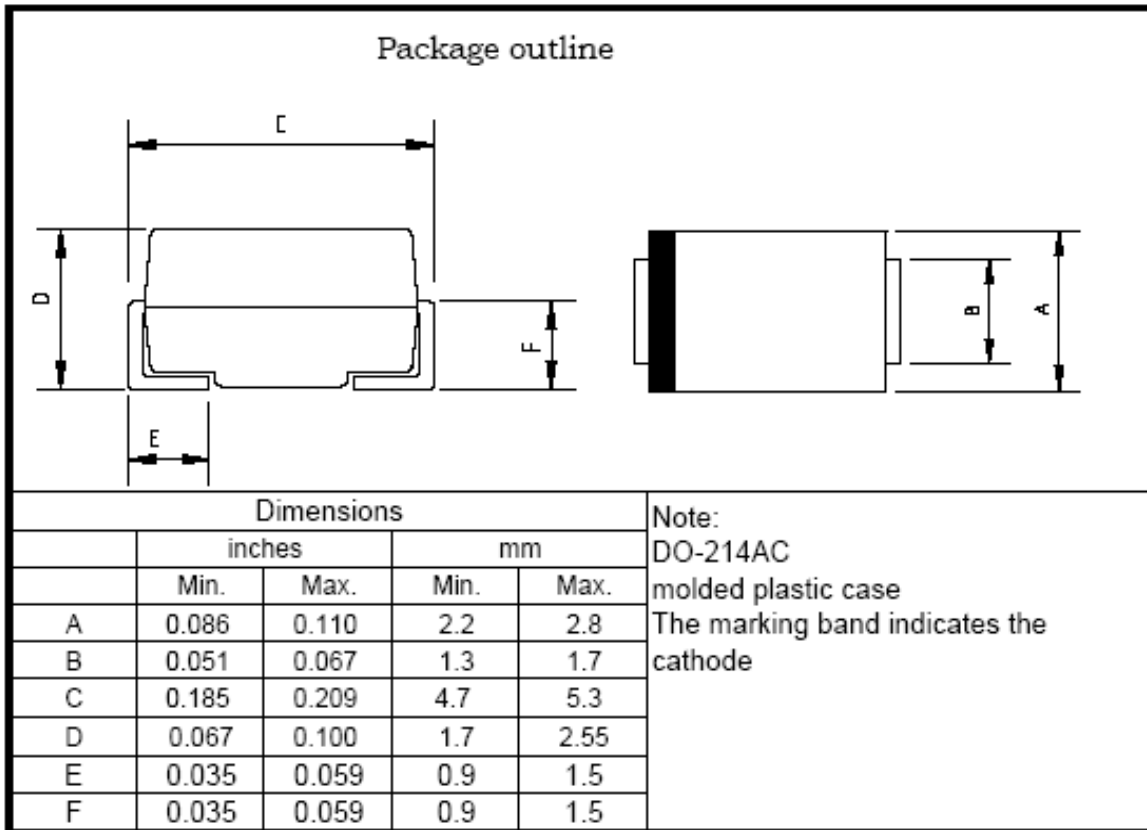


Fig 6. - Typical Junction Capacitance



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3. dimension:



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6. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2014-4-11
2	变更印字	谭志伟	2017-10-25
B	VF 0.5V变更到0.55V	谭志伟	2021-10-09

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