

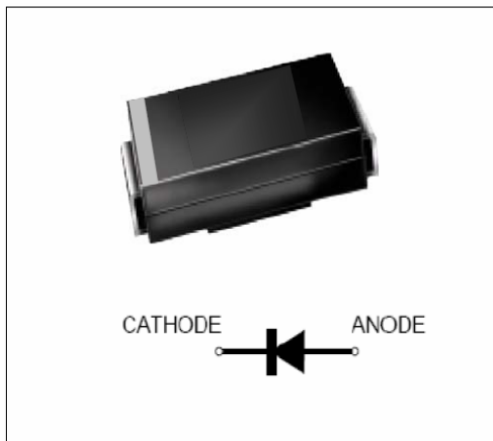
SM2150A thru SM2200A

Schottky Barrier Rectifiers

Reverse Voltage 150 to 200V Forward Current 2.0A

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



We declare that the material of product compliance with ROHS requirements

Mechanical Data

Case: JEDEC DO-214AC,

molded plastic over glass die

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

Electrical Characteristic

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

Parameter Symbol	symbol	SM2150A	SM2200A	Unit
device marking code		S215	S220	
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RMS}	105	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current (See fig. 1)	$I_F(AV)$	2.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60		A
Typical thermal resistance (Note 1)	$R_{\theta JA}$	150		°C/W
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	SM2150A	SM2200A	Unit
Maximum instantaneous forward voltage at 2.0A	V_F	0.87		V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	0.5 10.0		mA
Typical junction capacitance at 4.0V, 1MHz	C_J	110		PF

NOTES:

1. 8.0mm² (.013mm thick) land areas

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

Fig. 1 - Forward Current Derating Curve

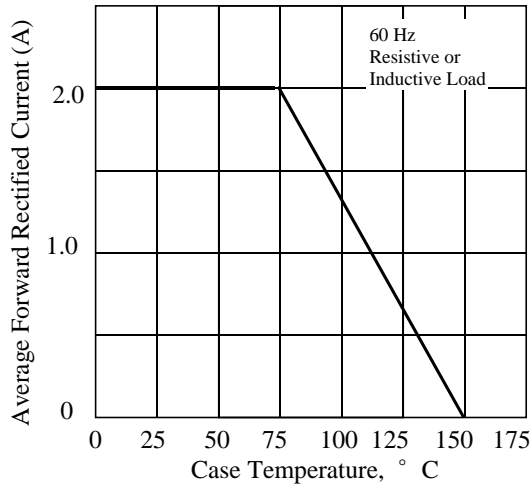


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

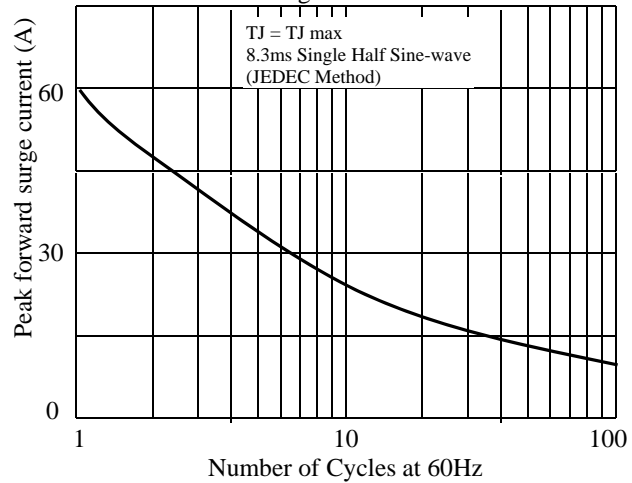


Fig. 3 - Typical Instantaneous Forward Characteristics

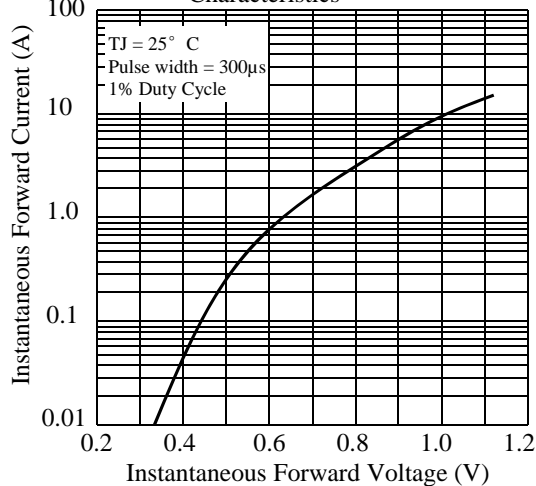


Fig. 4 - Typical Reverse Characteristics

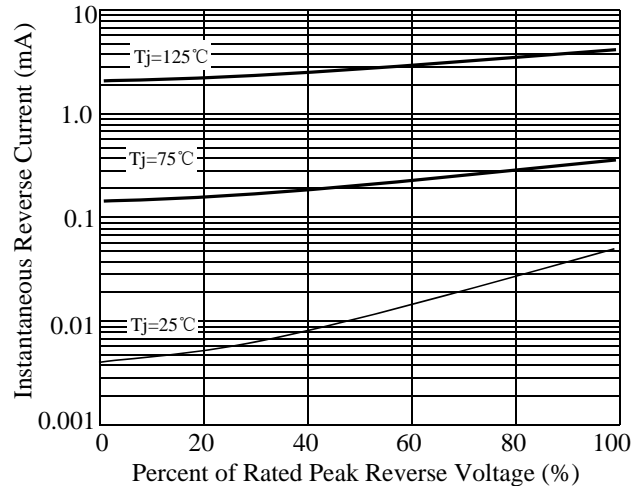


Fig. 5 - typical transient thermal impedance

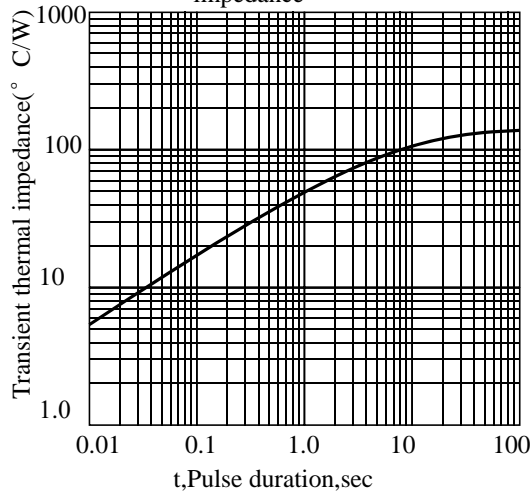
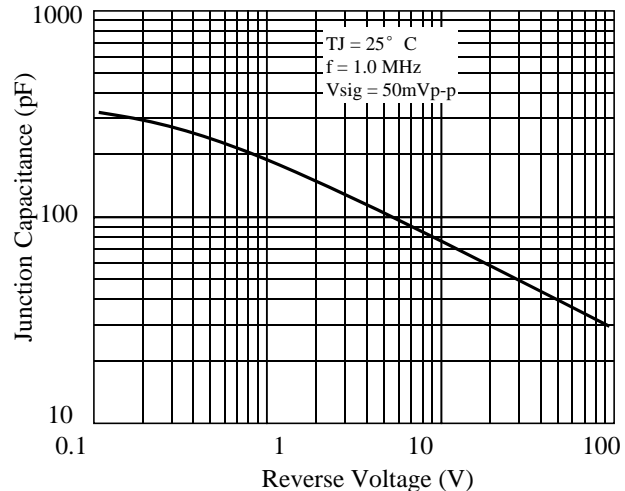
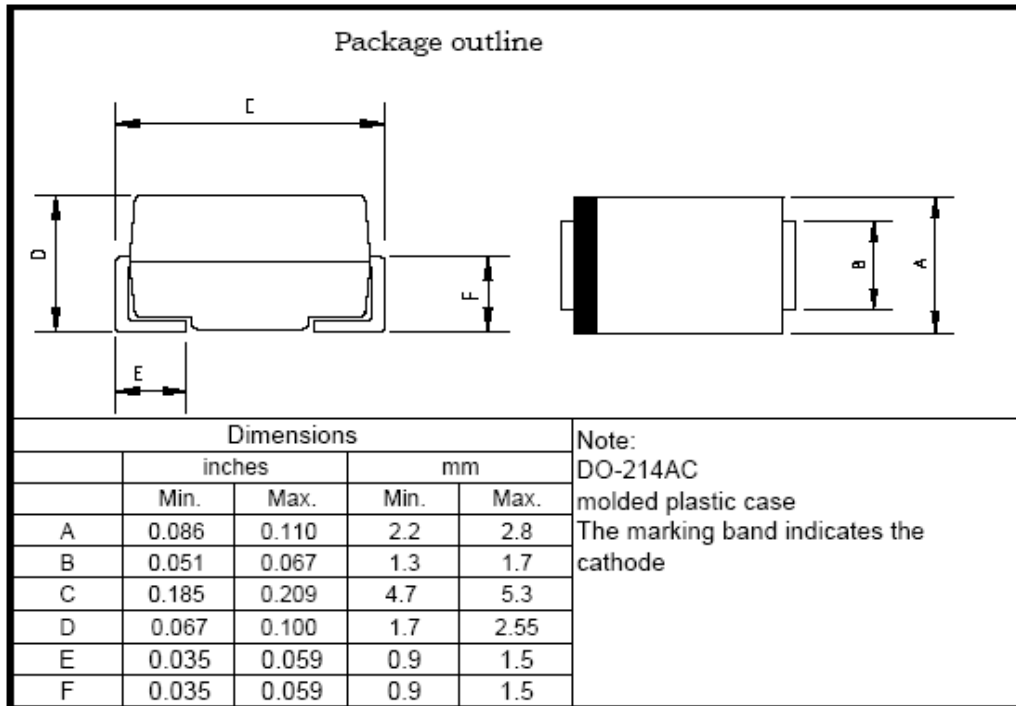


Fig. 6 - Typical Junction Capacitance

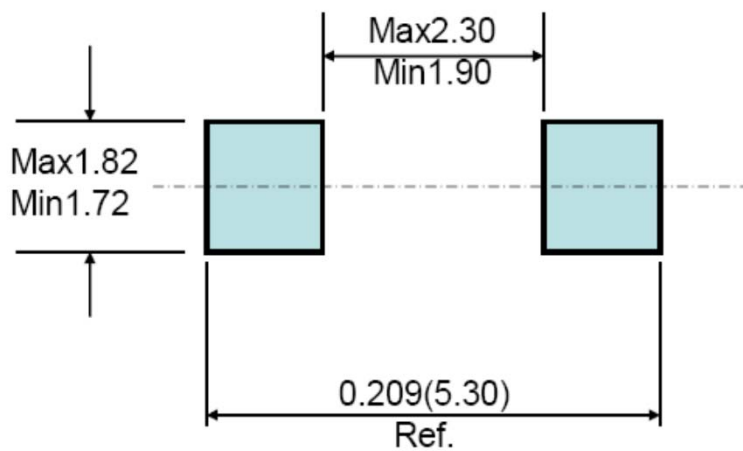


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3. dimension:



Mounting Pad Layout ---SMA



SM2150A: "S"--肖特基产品; "M"--表面贴装; "2"--正向电流2A; "150"--VB为150V; "A"--SMA封装;

SM2150A thru SM2200A

4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2012.07.27

单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)