

# SS22D THRU SS210D

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 100 V

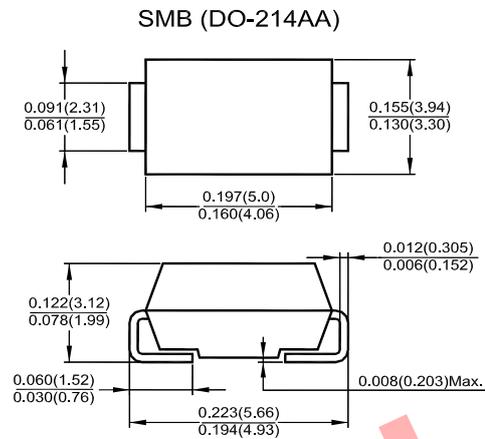
Forward Current - 2 A

### Features

- The plastic package carries UL Flammability Classification 94V-0
- Low power loss, high efficiency
- High forward surge current capability

### Mechanical Data

- **Case:** SMB (DO-214AA) molded plastic body
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any



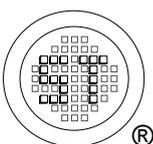
Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	SS22D	SS24D	SS26D	SS28D	SS210D	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	28	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2					A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50					A
Maximum Instantaneous Forward Voltage at 2 A	$V_F$	0.5	0.7	0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5			0.1		mA
		10		5			
Typical Thermal Resistance, Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	75					°C/W
Typical Thermal Resistance, Junction to Terminal <sup>1)</sup>	$R_{\theta JL}$	17					°C/W
Operating Junction Temperature Range	$T_j$	- 55 to + 125			- 55 to + 150		°C
Storage Temperature Range	$T_{stg}$	- 55 to + 150					°C

<sup>1)</sup> Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8 mm x 8 mm) copper pad areas.



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FIG.1: FORWARD CURRENT DERATING CURVE

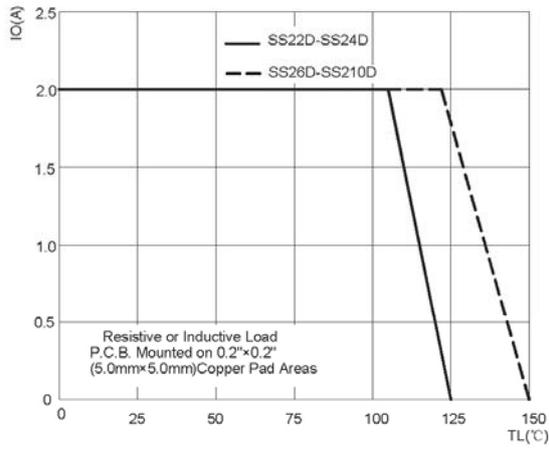


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

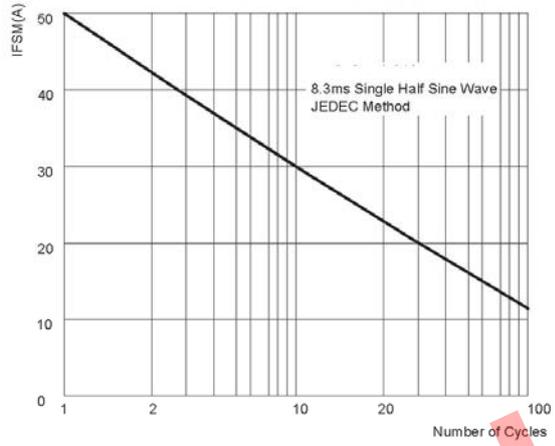


FIG.3: TYPICAL FORWARD CHARACTERISTICS

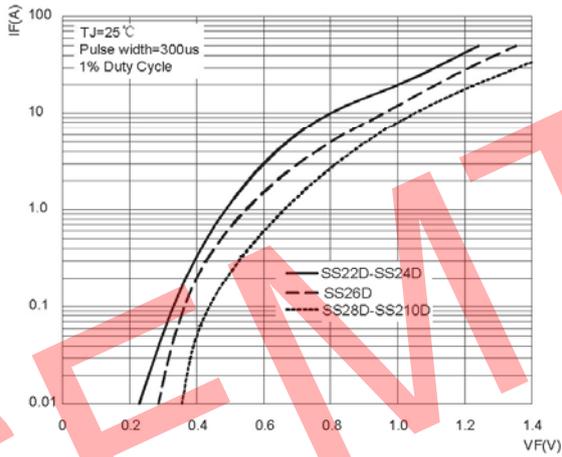
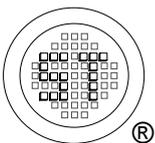
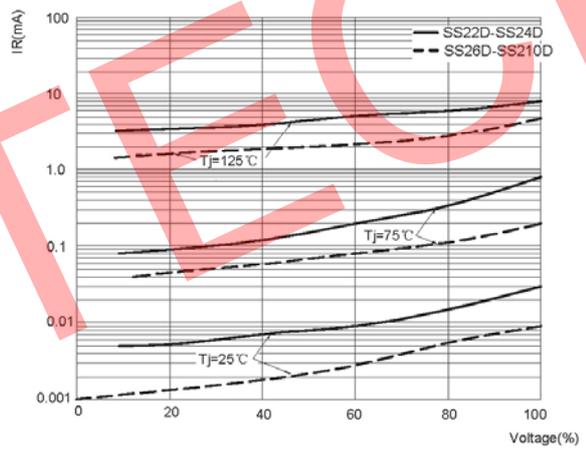


FIG.4: TYPICAL REVERSE CHARACTERISTICS



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