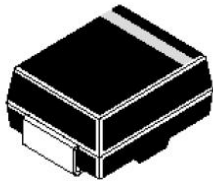


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



**SS22A-SS220A**  
**DO-214AC (SMA)**  
Surface Mount Plastic Package

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- 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

### MECHANICAL DATA

**Terminals:** Leads solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Weight:** 0.058 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temprature unless otherwise specified.

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

CHARACTERISTICS	SYMBOLS	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS210A	SS215A	SS220A	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub>(AV)</sub>	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0									Amps
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	0.55			0.70		0.85		0.95		Volts
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> =25°C T <sub>A</sub> = 100°C	I <sub>R</sub>	0.5							1		mA
		20			10						

Cont....

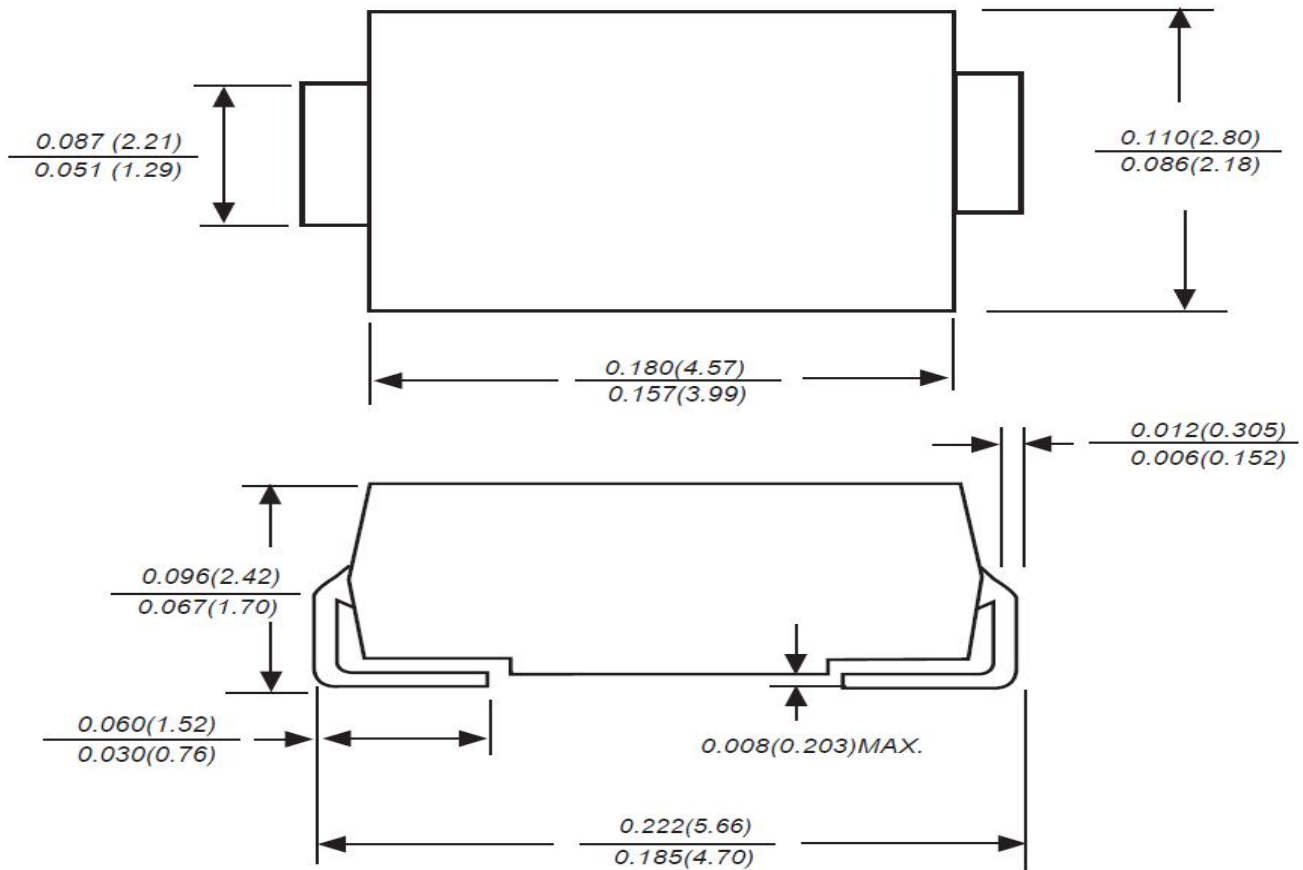
CHARACTERISTICS	SYMBOLS	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS210A	SS215A	SS220A	UNITS
Typical junction capacitance(NOTE 1)	C <sub>J</sub>	220			180						pF
Typical thermal resistance (NOTE 2)	R <sub>JA</sub>	75.0							45.0		°C/W
Operating junction temprature range	T <sub>J</sub>	-65 to 125			-65 to 150				-55 to 150		°C
Storage temprature range	T <sub>STG</sub>	-55 to 150									°C

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

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

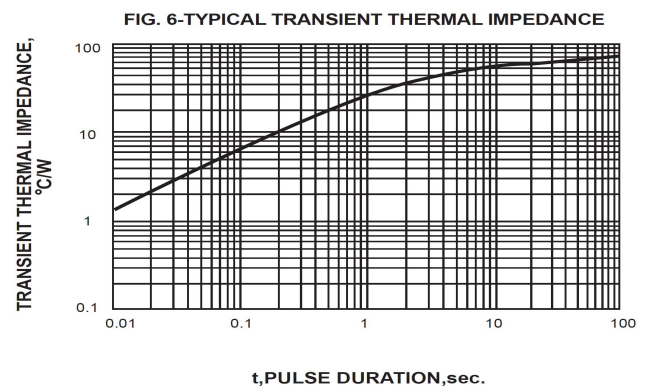
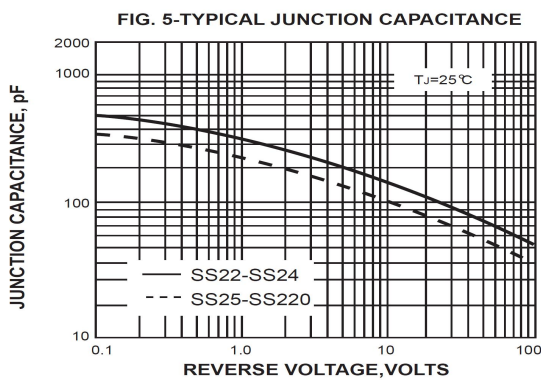
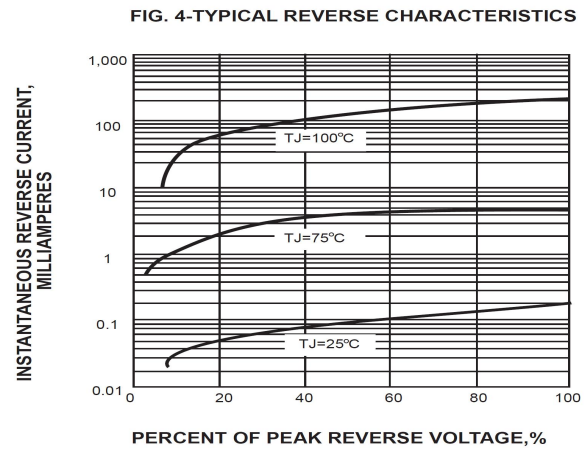
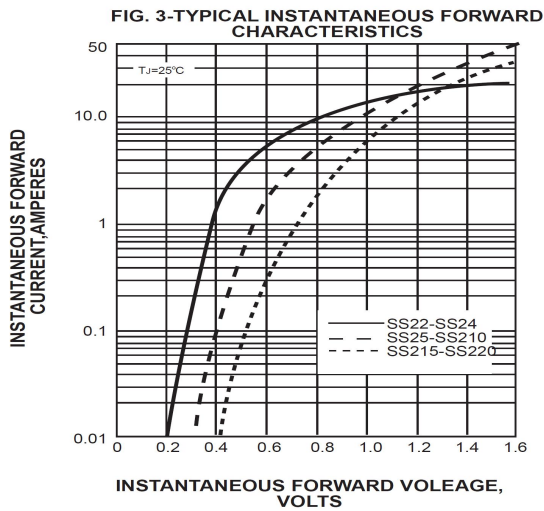
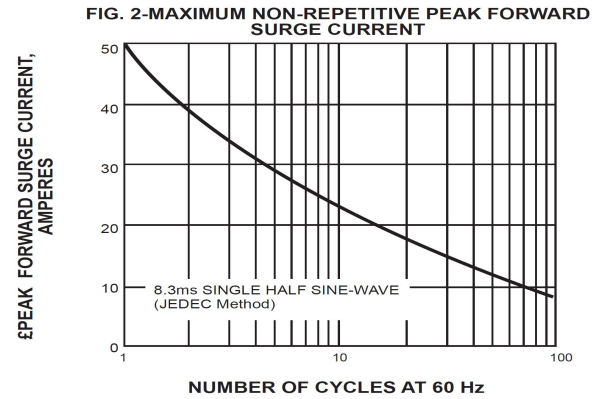
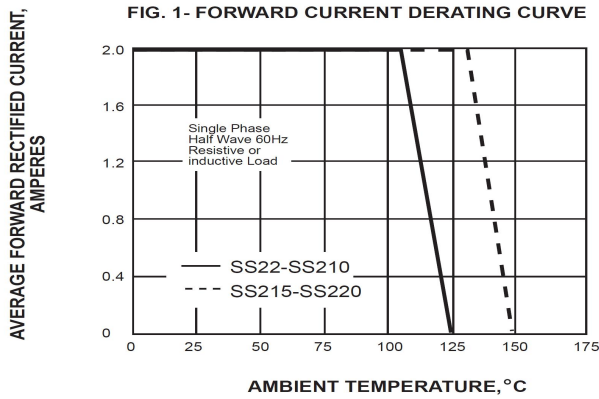
### DO-214 AC (SMA) Package Outline and Dimensions

## DO-214AC



*Dimensions in inches and (millimeters)*

## Characteristics Curves





Continental Device India Pvt.Limited  
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



## Customer Notes

### Component Disposal Instructions

1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

### Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Continental Device India Pvt. Limited  
C-120 Naraina Industrial Area, New Delhi 110 028, India.  
Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119  
email@cdil.com www.cdil.com  
CIN No. U32109DL1964PTC004291