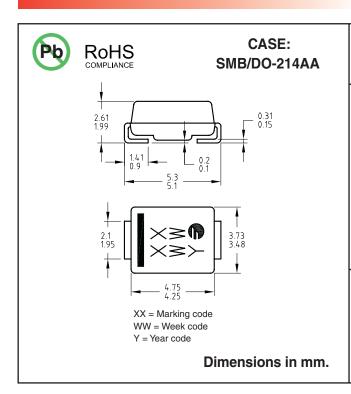


## 2 Amp. Surface Mount Schottky Barrier Rectifiers



Voltage	Current
20 V to 150 V	2.0 A

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability. low VF
- High surge current capability
- Plastic material used carriers Underwraiters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering:
  260 °C / 10 seconds at terminals

#### **MECHANICAL DATA**

Case: Molded plastic

Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band Packaging: 12 mm tape EIA-STD RS-481.

Weight: 0.093 g.

## Maximum Ratings and Electrical Characteristics at 25 °C

		FSS 22	FSS 23	FSS 24	FSS 25	FSS 26	FSS 29	FSS 210	FSS 215
	Marking code	B1	B2	В3	B4	B5	ВА	ВВ	ВС
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40	50	60	90	100	150
V <sub>RMS</sub>	Maximum RMS Voltage (V)	14	21	28	35	42	63	70	105
$V_{DC}$	Maximum DC Blocking Voltage (V)	20	30	40	50	60	90	100	150
I <sub>F(AV)</sub>	Forward Current at T <sub>L</sub> (See graphic)	2.0 A							
I <sub>FSM</sub>	8.3 ms.Peak Forward Surge Current (Jedec Method)	50 A							
Tj	Operating Temperature Range	-65°C to +125°C -65°C to +150°C							
T <sub>stg</sub>	Storage Temperature Range	-65°C to +150°C							

### Electrical Characteristics at Tamb = 25 °C

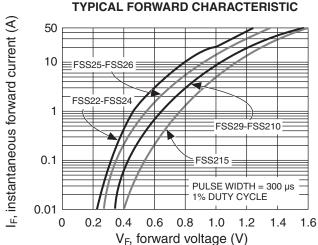
	Maximum Instantaneous Forward Voltage					
V <sub>F</sub>	(Note 1) I <sub>F</sub> = 2.0 A @ 25 °C	0.5 V	0.70 V	0.85 V 0.98	95 V	
	@ 100 °C	0.4 V	0.65 V	0.70 V 0.80	30 V	
1_	Maximum DC Reverse Current Ta = 25 °C at	0.4 mA		0.1 mA		
I <sub>R</sub>	Rated DC Blocking Voltage Ta =125°C	10 mA	5.0	mA		
C <sub>j</sub>	Typical Junction Capacitance (Note 3)	200 pF	48 pF	48 pF		
R <sub>th (j-l)</sub>	Typical Thermal Resistance (Note 2)		88 °C/W	-		
R <sub>th (j-a)</sub>			28 °C/W			

NOTES:

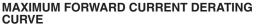
- 1. Pulse Test With PW = 300 µsec, 1% Duty Cycle
- 2. Measured on P.C. Board with 10mm x10mm Copper Pad Areas
- 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

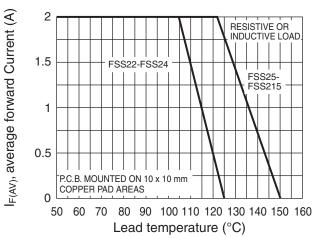


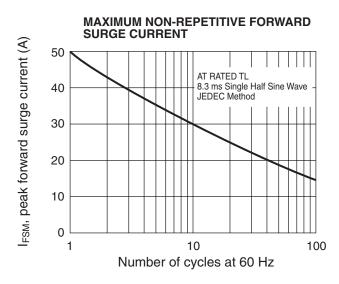
### **Rating And Characteristic Curves**



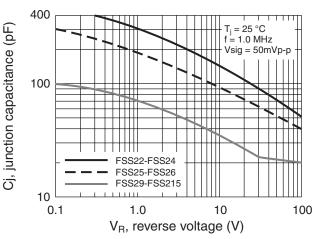




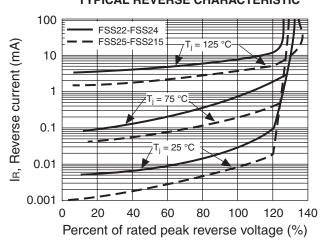












# TYPICAL TRANSIENT THERMAL CHARACTERISTIC

