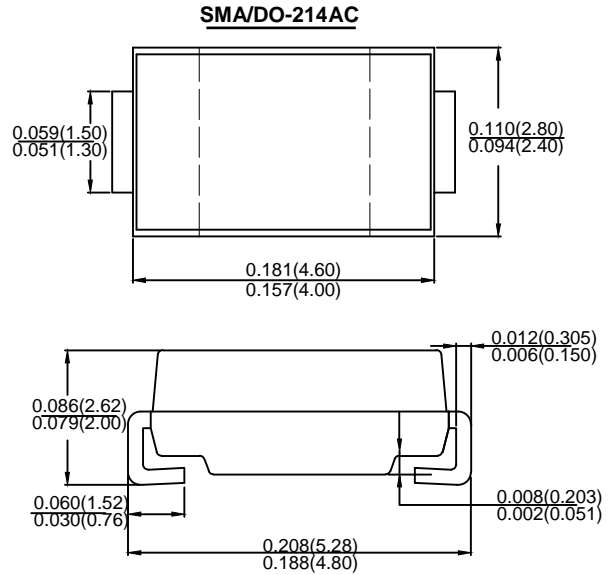


### Features

- Schottky Barrier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 50A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Moulded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS 22	SS 23	SS 24	SS 245	SS 25	SS 26	SS 28	SS 210	SS 215	SS 220	SS 225	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	45	50	60	80	100	150	200	250	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	31	35	42	56	70	105	140	175	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	45	50	60	80	100	150	200	250	V	
Average Rectified Output Current @ $T_A = 90^\circ\text{C}$	$I_o$	2.0											A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50											A	
Forward Voltage @ $I_F = 2.0\text{A}$	$V_{FM}$	0.55			0.7		0.85		0.92		0.95		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	0.1						0.05						mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10						5						
Typical Junction Capacitance (Note 2)	$C_J$	28											pF	
Typical Thermal Resistance per leg	$R_{\theta JL}$	88											$^\circ\text{C}/\text{W}$	
Operating Temperature Range	$T_J$	-55 to +150											$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150											$^\circ\text{C}$	

Note: 1. Pulse Test with  $PW = 300\mu\text{sec}$ , 1% Duty Cycle.

2. Mounted on P.C. Board with  $5.0\text{ mm}^2$  (0.13mm thick) copper pad areas.

# SS22 THRU SS225

Fig. 1 Forward Current Derating Curve

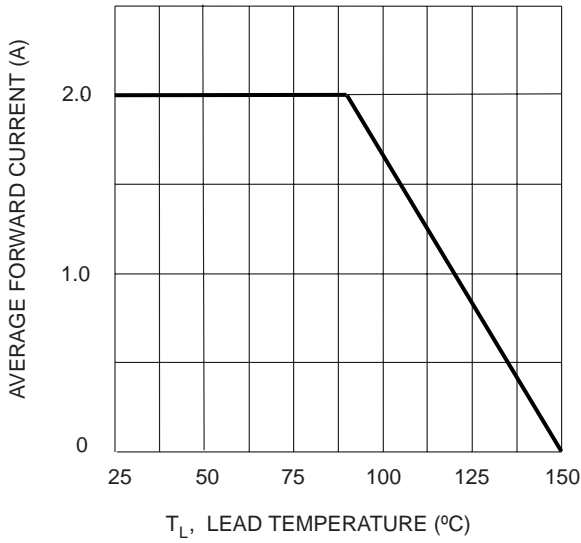


Fig. 2 Typ. Forward Characteristics

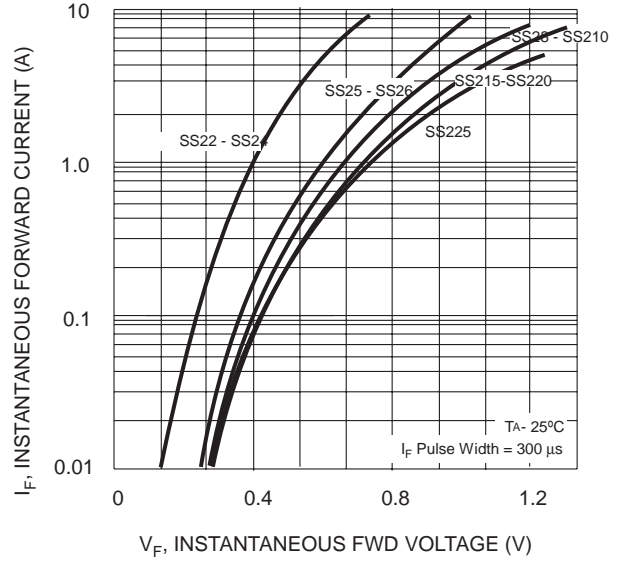


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

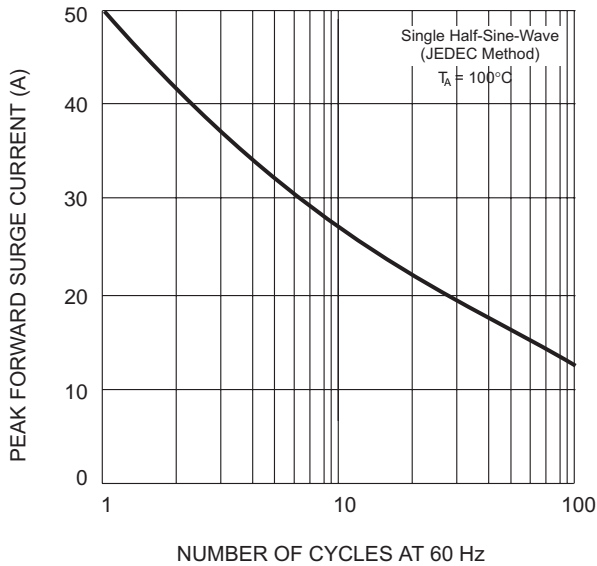


Fig. 4 Typical Reverse Characteristics (per element)

