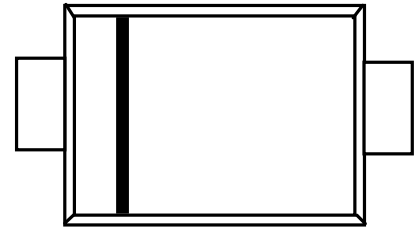


»Features

- For surface mounted applications
- 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

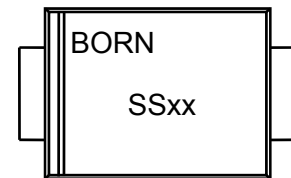


SMA(DO-214AC)

»General Description

- Case: JEDEC DO -214AC molded plastic
- Terminals: Axial leads. Solderable per MIL - STD - 750 Method 2026
- Polarity: Color band denotes cathode
- Mounting Position: Any

»Marking Information



xx = Type Code

» Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half wave 60HZ. resistive or inductive load. For capacitive load current derate by 20%

	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave	I_{FSM}	40.0							A
Maximum Forward Voltage at 1.0A DC	V_F	0.55		0.70		0.85		V	
Maximum Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R	6.0			5.0			m A	
Typical Junction Capacitance (Note 1)	C_j	110			90			pF	
Typical Thermal Resistance (Note 2)	R_{QJA}	88.0							°C/W
Operating Junction Temperature Range	T_j	-55 to 125			-55 to 150			°C	
Storage Temperature Range	T_{STG}	-55 to 150							°C

NOTE: Measured at 1.0MHz and applied reverse voltage of 4.0V DC

»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

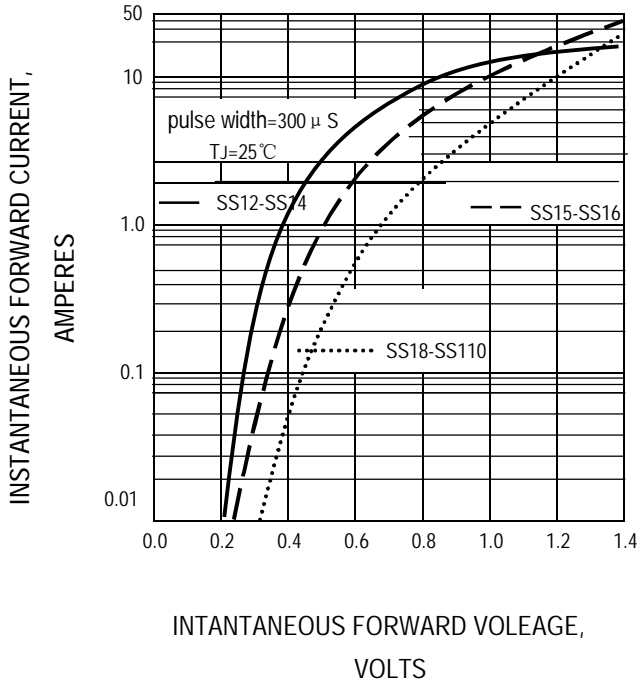


FIG.2-TYPICAL JUNCTION CHARACTERISTICS

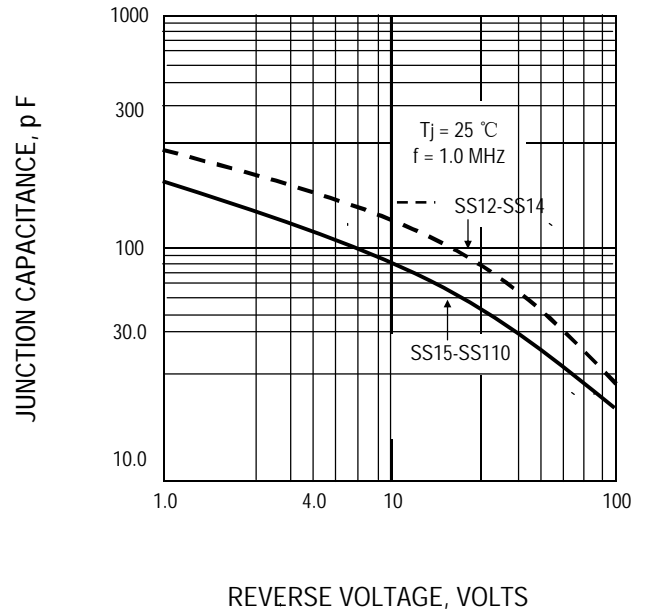


FIG.3-FORWARD CURRENT DERATING CURVE

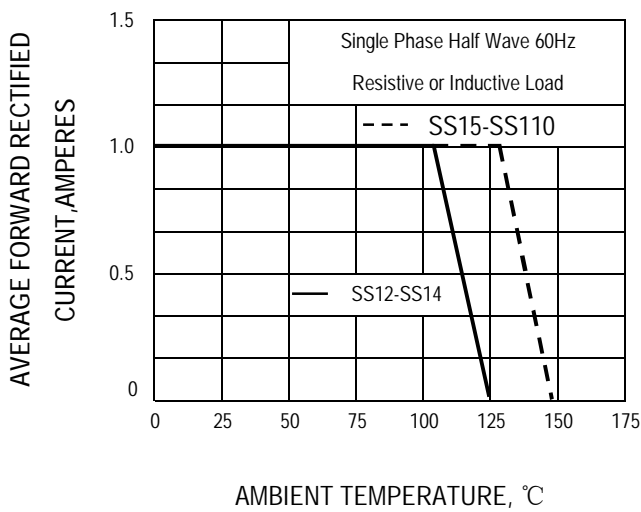
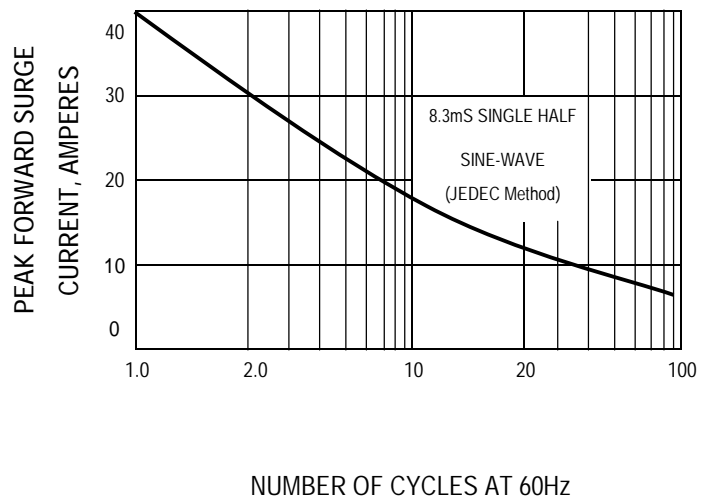
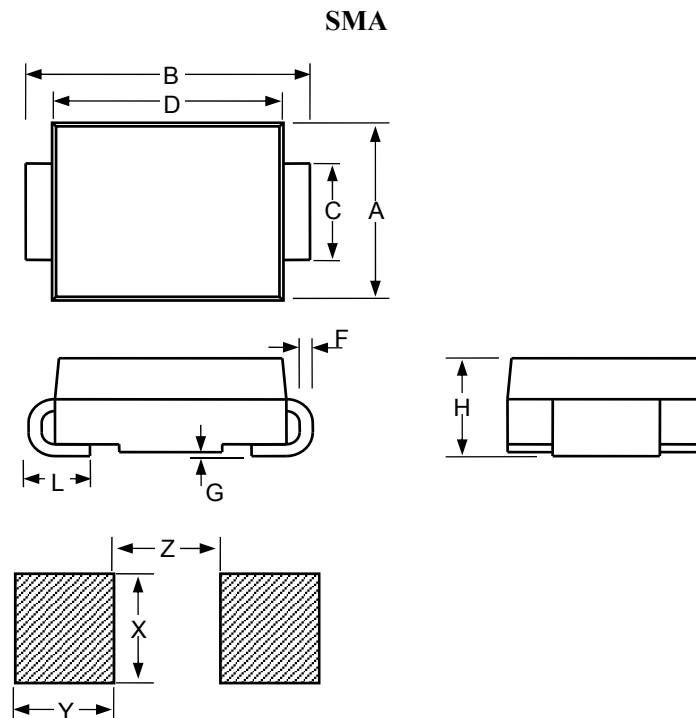


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



»Package Information



SMA						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.1		0.11	2.54		2.8
B	0.194		0.223	4.93		5.66
C	0.051		0.067	1.3		1.7
D	0.157		0.177	3.99		4.5
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.078		0.095	1.98		2.42
L	0.03		0.06	0.76		1.52
X		0.085			2.16	
Y		0.07			1.78	
Z		0.079			2	

»Ordering information

Package	Packing Description	Packing Quantity	Industry Standard
SMA	Tape/Reel, 13" reel	5000	EIA-481-1