

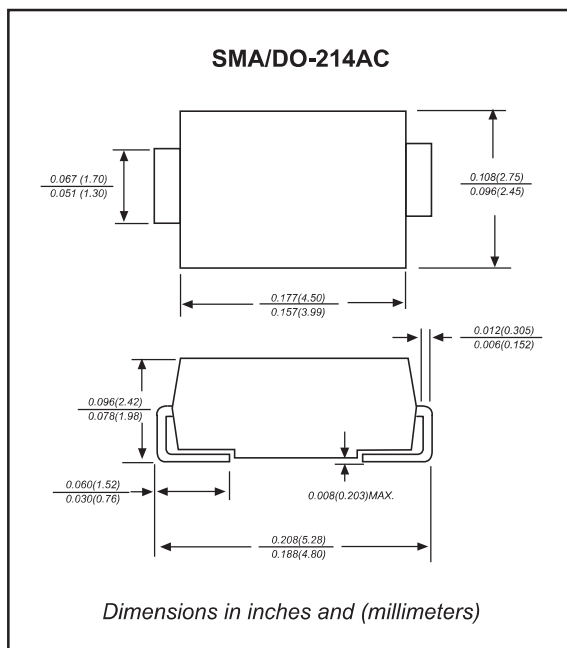
Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ 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
- ◆ Compliant to RoHS Directive 2011/65/EU
- ◆ Compliant to Halogen-free

Mechanical data

- ◆ **Case:** JEDEC DO-214AC molded plastic body
- ◆ **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ **Polarity:** Color band denotes cathode end
- ◆ **Mounting Position:** Any

Package outline



Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS		Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1		I_O			1.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)		I_{FSM}			25	A
Reverse current	$T_A = 25^\circ\text{C}$	$V_R = 20\text{V} - 60\text{V}$	I_R			0.5	mA
		$V_R = 80\text{V} - 200\text{V}$				0.1	
Reverse current	$T_A = 100^\circ\text{C}$	$V_R = 20\text{V} - 60\text{V}$	I_R			10	mA
		$V_R = 80\text{V} - 200\text{V}$				5	
Thermal resistance (1)	Junction to Ambient		$R_{\theta JA}$		70		$^\circ\text{C/W}$
	Junction to Case		$R_{\theta JC}$		25		
	Junction to Lead		$R_{\theta JL}$		30		
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage		C_J		110		pF
Storage temperature			T_{STG}	-65		+150	$^\circ\text{C}$

Note: (1) Device mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area.

SYMBOLS	V _{RRM} ^{*1} (V)	V _{RMS} ^{*2} (V)	V _R ^{*3} (V)	V _F ^{*4} (V)	Operating temperature T _J , (°C)
SS12-A	20	14	20	0.55	-55 to +125
SS13-A	30	21	30		
SS14-A	40	28	40		
SS15-A	50	35	50	0.70	-55 to +150
SS16-A	60	42	60		
SS18-A	80	56	80	0.85	
SS110-A	100	70	100		
SS115-A	150	105	150	0.92	
SS120-A	200	140	200		

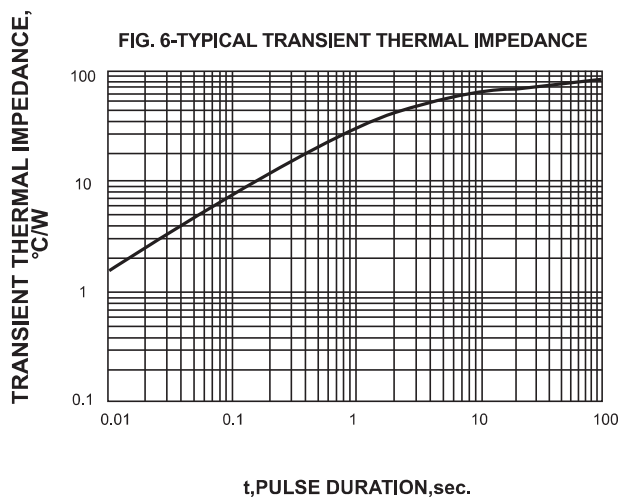
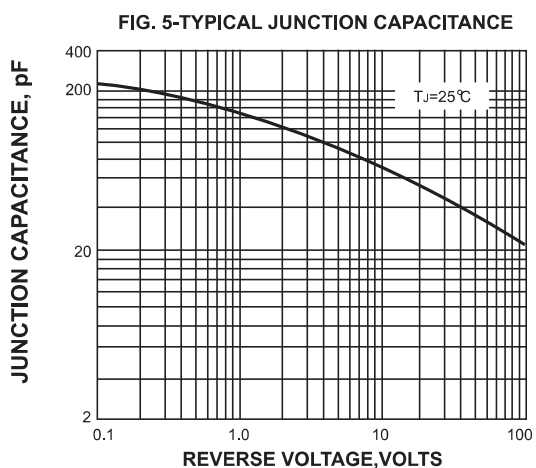
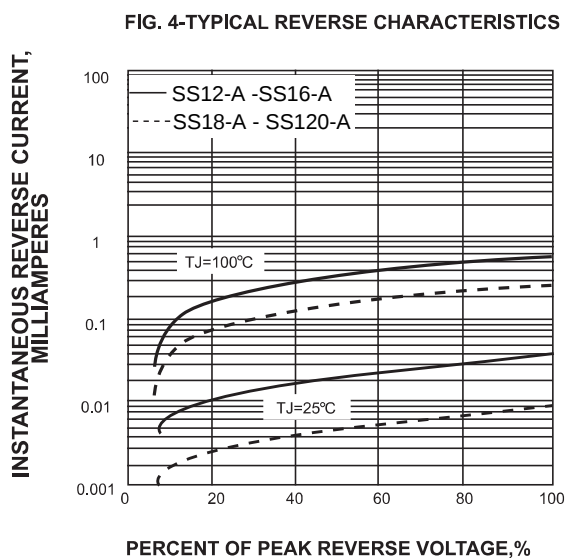
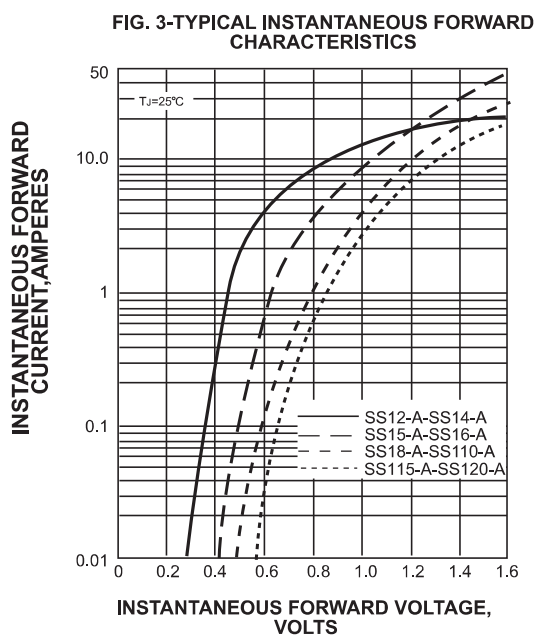
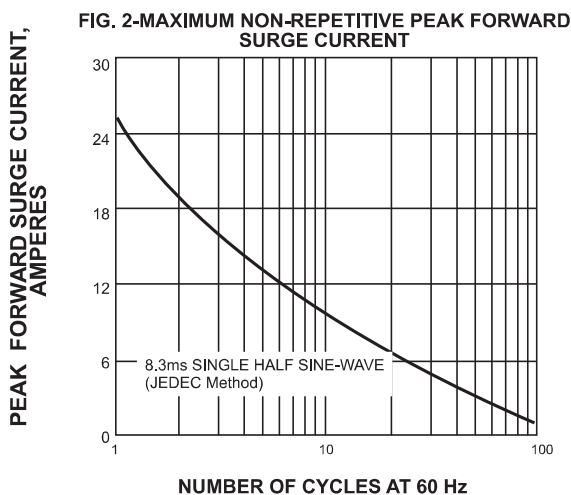
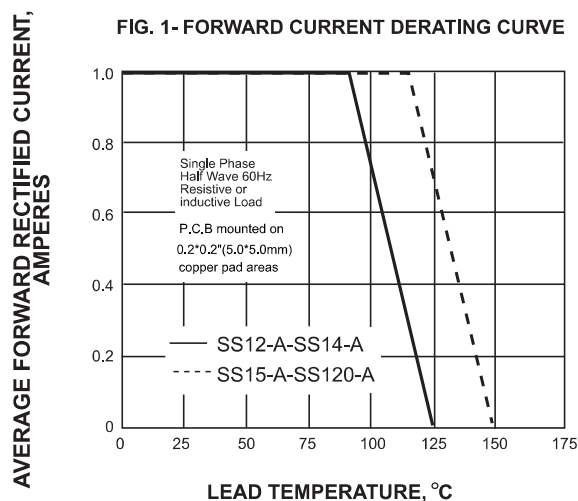
*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@ $I_F=1.0\text{A}$

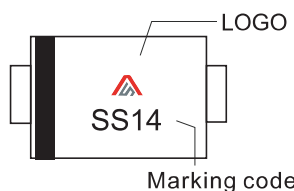
Rating and characteristic curves



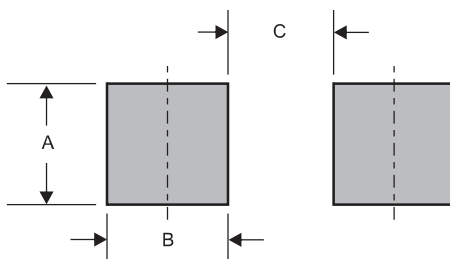
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code	Example
SS12-A	SS12	
SS13-A	SS13	
SS14-A	SS14	
SS15-A	SS15	
SS16-A	SS16	
SS18-A	SS18	
SS110-A	SS110	
SS115-A	SS115	
SS120-A	SS120	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SMA	0.110 (2.80)	0.063 (1.60)	0.087 (2.20)