

Features

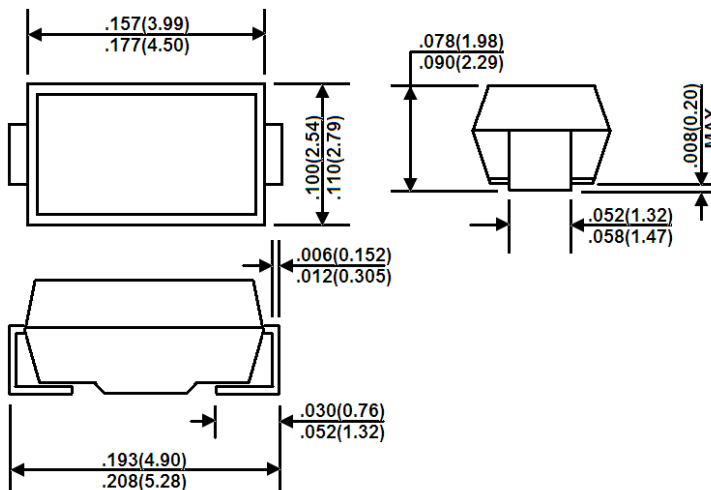
- * The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * Built-in strain relief, ideal for automated placement
- * High forward surge current capability
- * High temperature soldering guaranteed:
260°C /10 seconds at terminals



RoHS
COMPLIANT

Package Outline Dimensions in inches (millimeters)

SMA:



Mechanical Data

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

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	SS 12	SS 13	SS 14	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum D.C Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0									A	
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	30									A	
Maximum Instantaneous Forward Voltage at 1.0A(Note1)	V_F	0.50			0.75		0.80		0.95		V	
Maximum Reverse Current @ Rated VR	I_R	0.2					0.1					mA
		6			5		-					
		-					2					
Voltage Rate of Change (Rated VR)	dV/dt	10000									V/ μ s	
Typical Thermal Resistance	$R_{\theta JL}$	28									°C/W	
	$R_{\theta JA}$	88										
Operating Junction Temperature Range	T_J	-55 to +125				-55 to +150						°C
Storage Temperature Range	T_{STG}	-55 to +150									°C	

Note: 1、 Pulse test: PW=300 μ S, 1% duty cycle

Ratings and Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

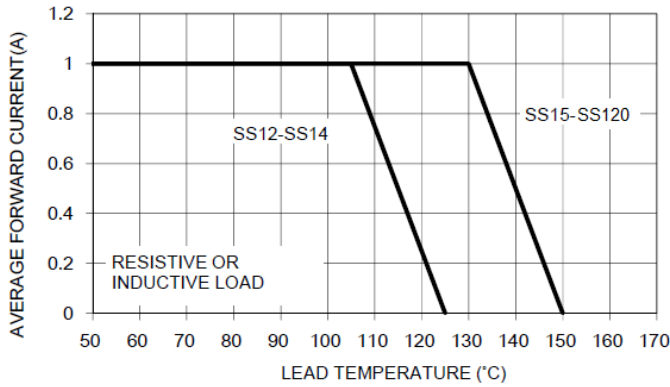


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

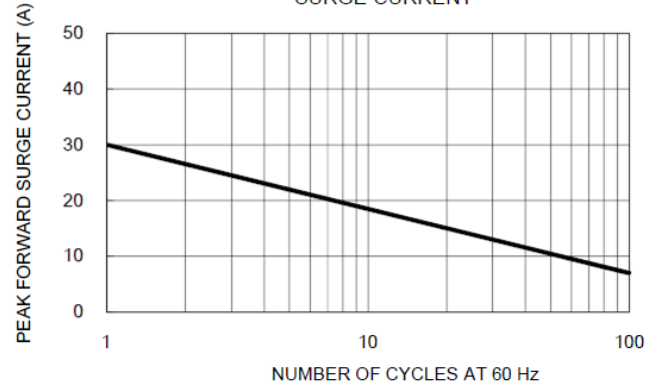


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

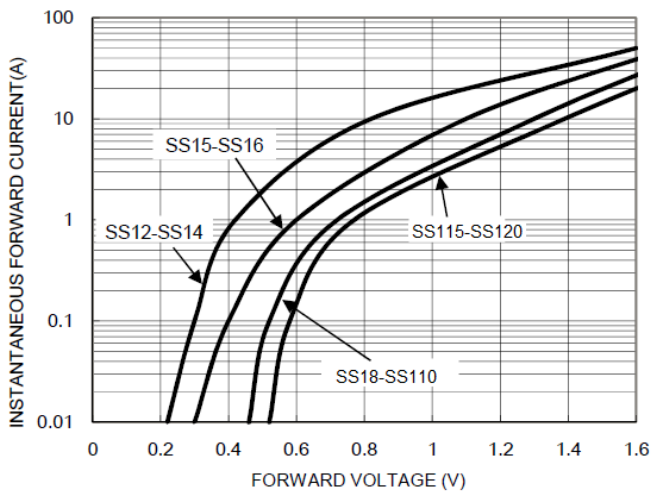


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

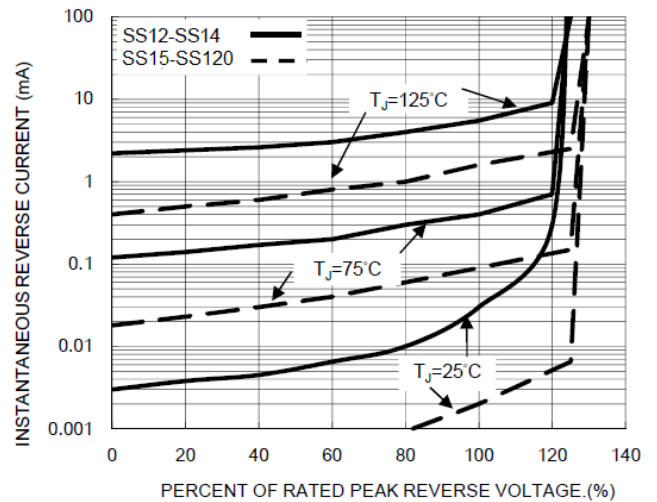


FIG. 5 TYPICAL JUNCTION CAPACITANCE

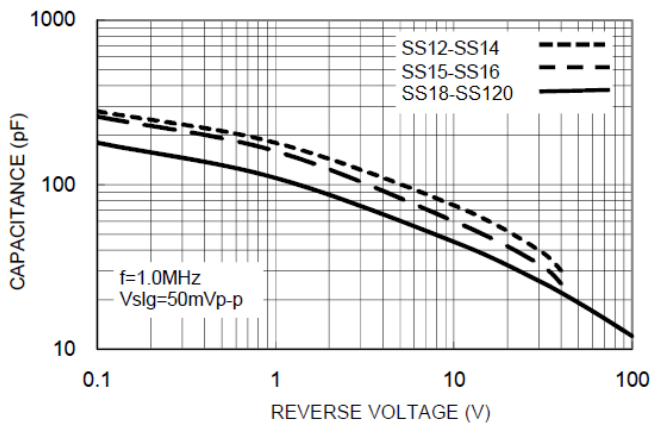
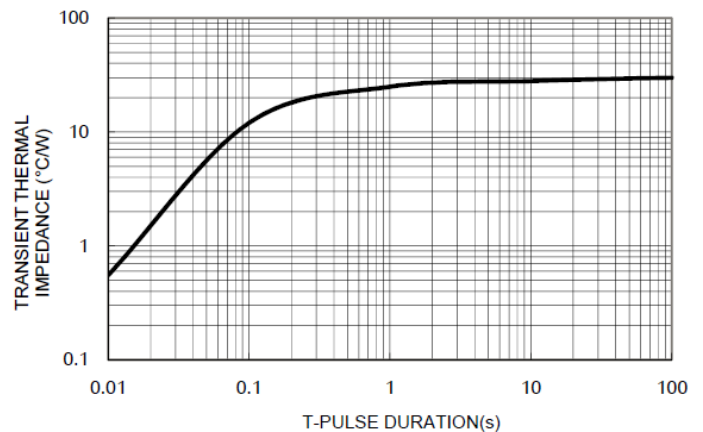


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE





SS12 THRU SS120

1.0 Amp. Surface Mount Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SS12~SS120	SMA	5K/Reel
SS12~SS120	SMA	6K/Reel
SS12~SS120	SMA	7.5K/Reel

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