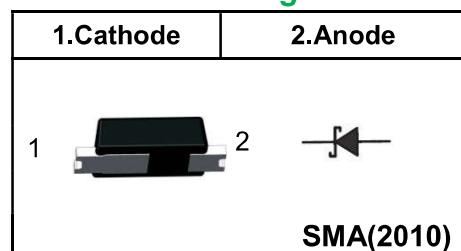


Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 40V~200V
Forward Current – 3.0 A
FEATURES

- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- ◆ Case:SMA(2010)
- ◆ Terminals: Solderable per MIL-STD-750, Method2026
- ◆ Approx. Weight: 30mg /0.0010oz

Pinning

Marking Code

SS34	SS34
SS36	SS36
SS310	SS310
SS315	SS315
SS320	SS320

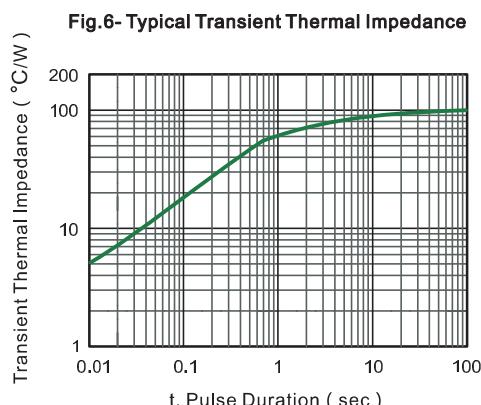
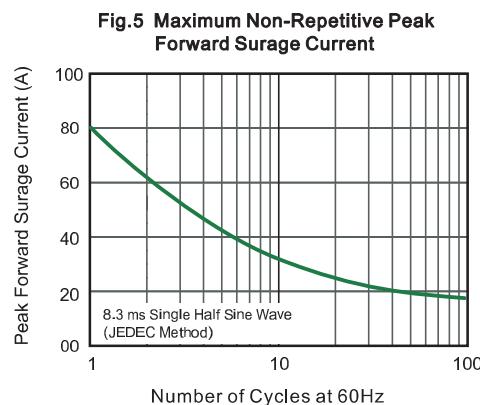
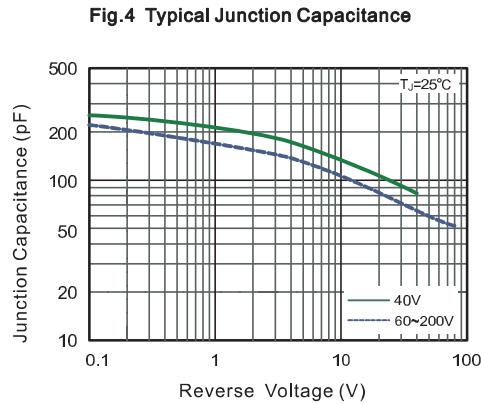
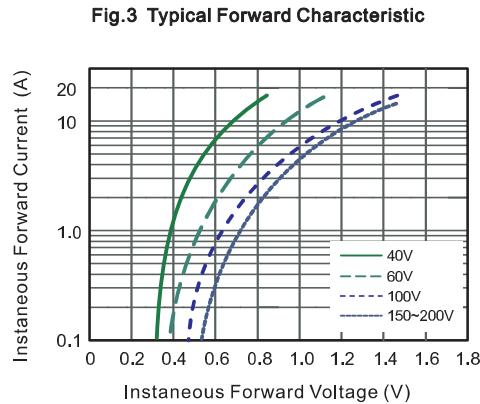
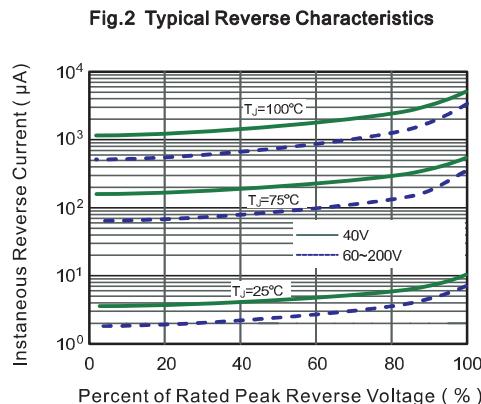
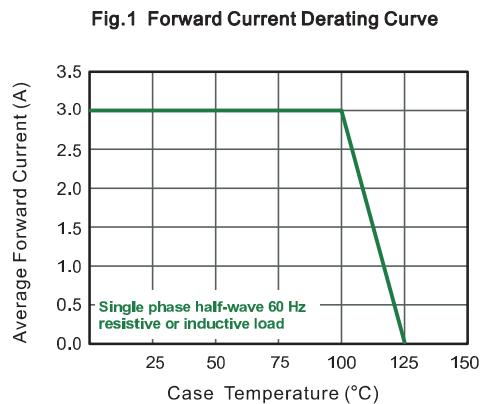
Absolute Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	SS34	SS36	SS310	SS315	SS320	Units				
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	V				
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V				
Maximum DC Blocking Voltage	V_{DC}	40	60	100	150	200	V				
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0					A				
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	80					A				
Maximum Instantaneous Forward Voltageat 3 A	V_F	0.55	0.70	0.85	0.95						
Maximum DC Reverse Current TA = 25°C at Rated DC Blocking Voltage TA = 100°C	I_R	0.5 10	0.3 5				mA				
Typical Junction Capacitance ⁽¹⁾	C_J	180	150				pF				
Typical Thermal Resistance ⁽²⁾	R_{Theta}	100					°C/W				
Operating Junction Temperature Range	T_J	-55 ~ +125					°C				
Storage Temperature Range	T_{stg}	-55 ~ +150					°C				

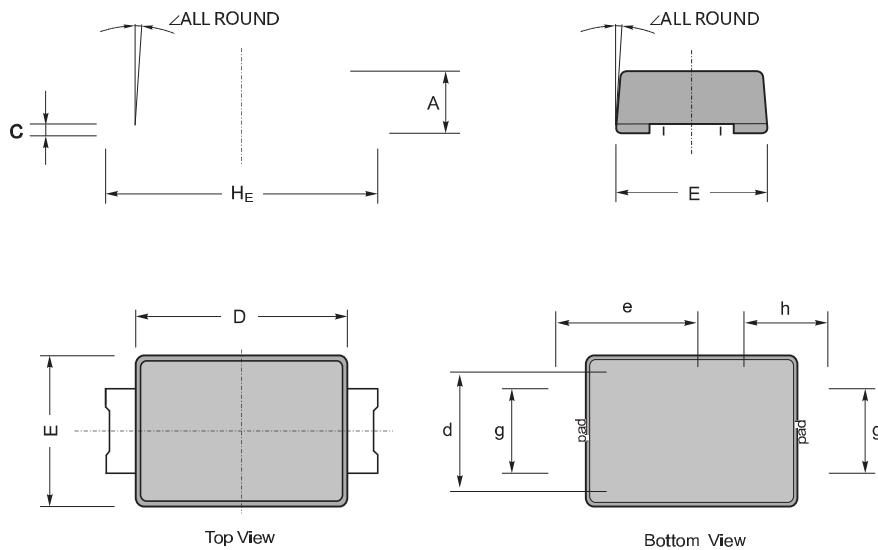
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 3.81 X 3.81 cm copper pad areas.

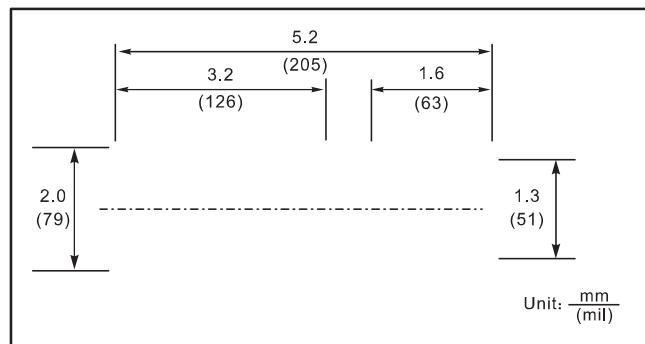


Package Outline SMA(2010)

Plastic surface mounted package; 2 leads



UNIT		A	C	D	E	H_E	d	e	g	h	\angle
mm	max	1.20	0.35	4.10	2.70	5.20	1.90	3.05	1.50	1.2	12°
	min	0.90	0.20	3.70	2.30	4.80	1.70	2.85	1.30	1.0	
mil	max	47	13.8	161	106	205	75	120	59	47	12°
	min	35	7.9	145	90	189	67	112	51	39	

The recommended mounting pad size

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SMA(2010)	Tape/Reel, 7" reel	3000	EIA-481-1