

Surface Mount Schottky Barrier Rectifier

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Features:

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

Mechanical Data:

Case	: Molded Plastic
Polarity	: Colour band denotes cathode
Weight	: 0.002 ounces, 0.064 grams
Reverse Voltage	: 30 to 60 Volts
Forward Current	: 2 Amperes

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%.

Characteristics	Symbol	SS23A+	SS24A+	SS26A+	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	30	40	60	V
Max. RMS Voltage	V _{RMS}	21	28	42	
Max. DC Blocking Voltage	V _{DC}	30	40	60	
Max. Average Forward Rectified Current T _L = 100°C	I(AV)	2			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50			
Peak Forward Voltage at 2A DC	V _F	0.55			V
Max. DC Reverse Current at T _J = 25°C Rated DC Blocking Voltage at T _J = 100°C	I _R	1 20			mA
Typical Junction Capacitance (Note 1)	C _J	200			pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15			°C/W
Operating Temperature Range	T _J	-55 to + 150			°C
Storage Temperature Range	T _{STG}				

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance junction to lead.
3. The typical data above is for reference only

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Ratings and Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

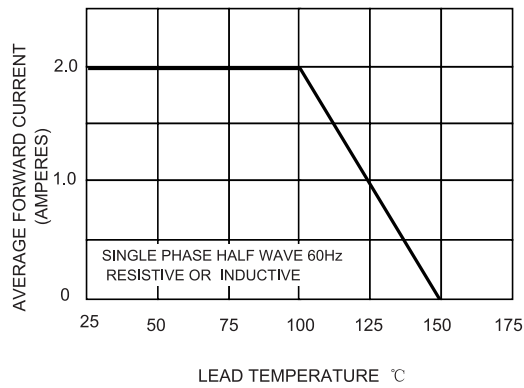


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

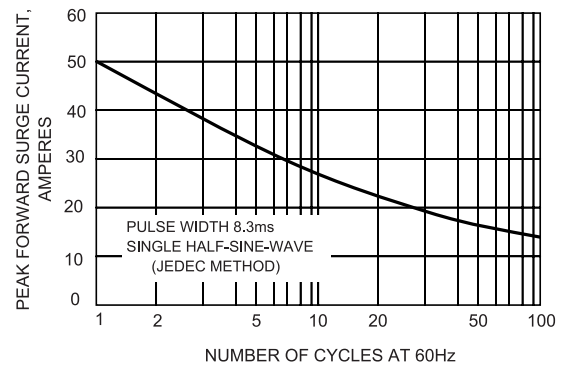


FIG.3-TYPICAL FORWARD CHARACTERISTICS

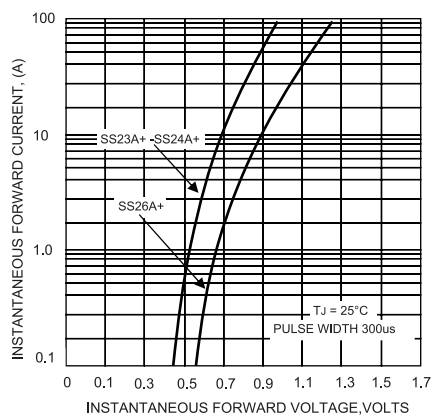


FIG.4-TYPICAL JUNCTION CAPACITANCE

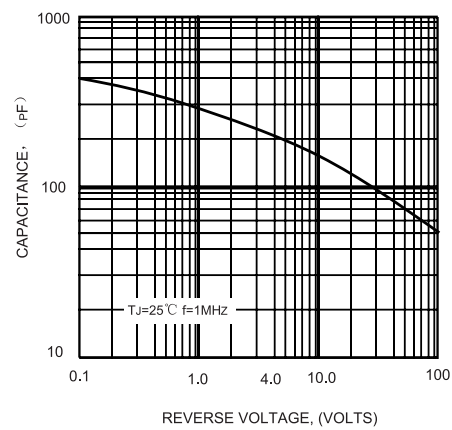
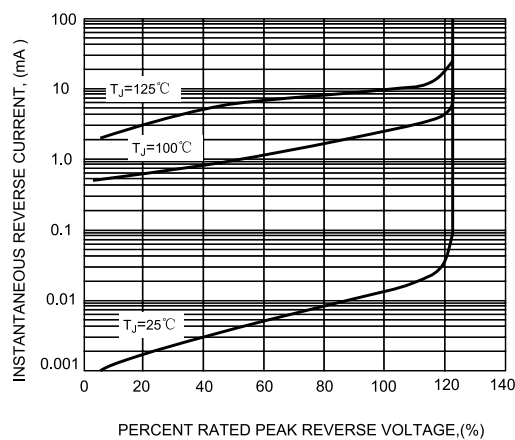


FIG.5-TYPICAL REVERSE CHARACTERISTICS

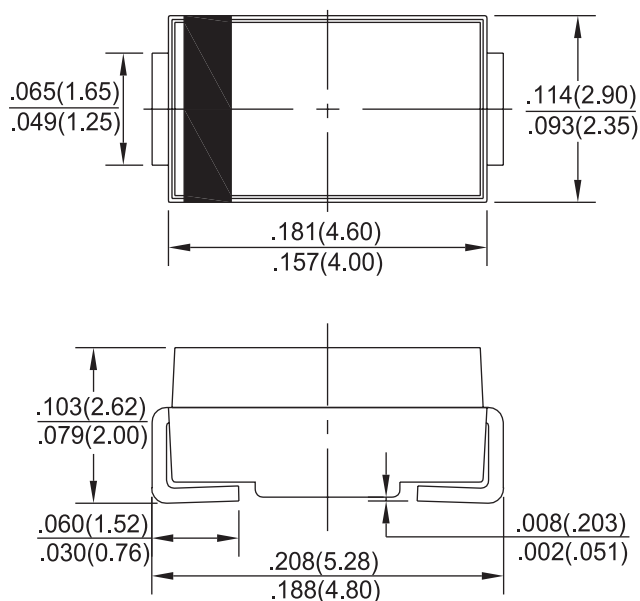


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Dimensions:

SMA



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Diode 2A 30V SMA	SS23A+
Schottky Diode 2A 40V SMA	SS24A+
Schottky Diode 2A 60V SMA	SS26A+

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