Surface Mount Schottky Barrier Rectifier

multicomp



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	: 0.007 ounces,0.21 grams		
Reverse Voltage	: 20 to 100 Volts		
Forward Current	: 3 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%.

Type Number	Symbol	SS32	SS33	SS34	SS36	SS310	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	20	30	40	60	100	
Max. RMS Voltage	VRMS	14	21	28	42	70	V
Max. DC Blocking Voltage	VDC	20	30	40	60	100	
Max. Average ForwardRectified CurrentTL= 100°C	I(AV)	I(AV) 3					
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method	IFSM	80				A	
Peak Forward Voltage at 3A DC	VF		0.55		0.7	0.85	V
$ \begin{array}{ll} \mbox{Max. DC Reverse Current at} & T_J = 25^\circ \mbox{C} \\ \mbox{Rated DC Blocking Voltage at} & T_J = 100^\circ \mbox{C} \end{array} $	IR	1 20			mA		
Typical Junction Capacitance (Note 1)	CJ	250				pF	
Typical Thermal Resistance (Note 2)	Rejl	10				°C/W	
Typical Thermal Resistance (Note 3)	Reja	50					
Operating Temperature Range	TJ	EE to 11E0				°C	
Storage Temperature Range	Тѕтс	-55 to +150					

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead.
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

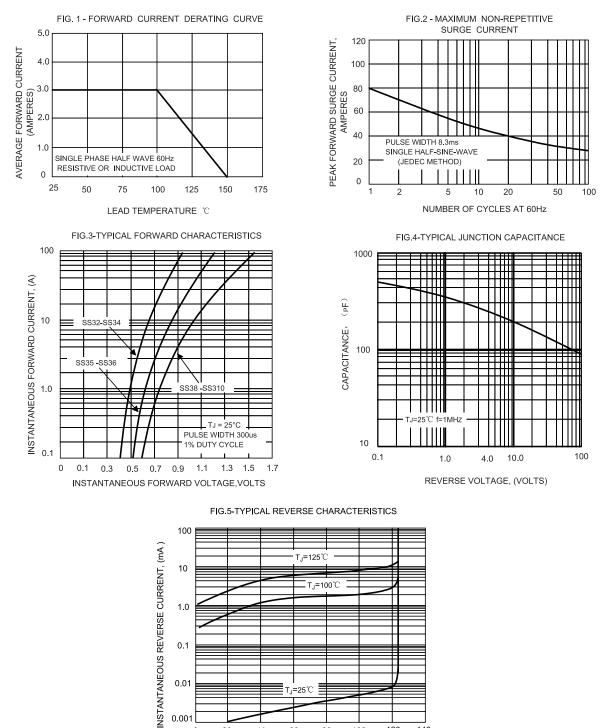
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Ratings and Characteristic Curves



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120

140

0.001

0

20

40

60

80

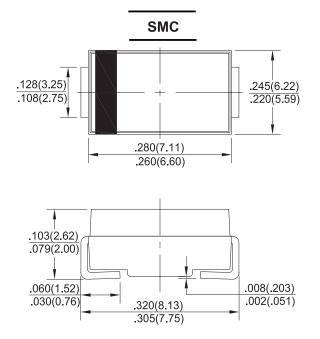
PERCENT RATED PEAK REVERSE VOLTAGE,(%)

100

Surface Mount Schottky Barrier Rectifier



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Surface Mount Schottky Barrier Rectifiers	SS310
	SS32
	SS33
	SS34
	SS36

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