Surface Mount
Schottky Barrier Rectifier

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	V_{RRM}	20	30	40	60	100	V
Max. RMS Voltage	V_{RMS}	14	21	28	42	70	
Max. DC Blocking Voltage	V_{DC}	20	30	40	60	100	
Max. Average Forward Rectified Current T_L= 100°C	$I_{(AV)}$	3					A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80					
Peak Forward Voltage at 3A DC	V_F	0.55			0.7	0.85	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	250					pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	10					°C/W
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	50					
Operating Temperature Range	T_J	-55 to +150					°C
Storage Temperature Range	T_{STG}						

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

Ratings and Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

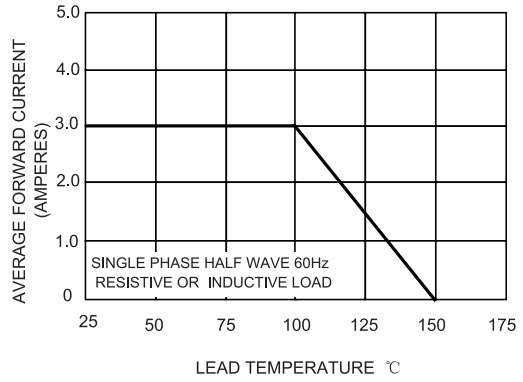


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

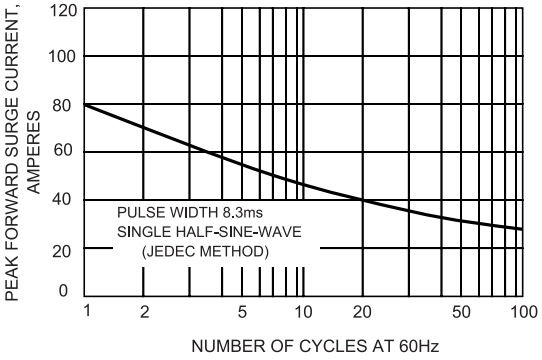


FIG.3-TYPICAL FORWARD CHARACTERISTICS

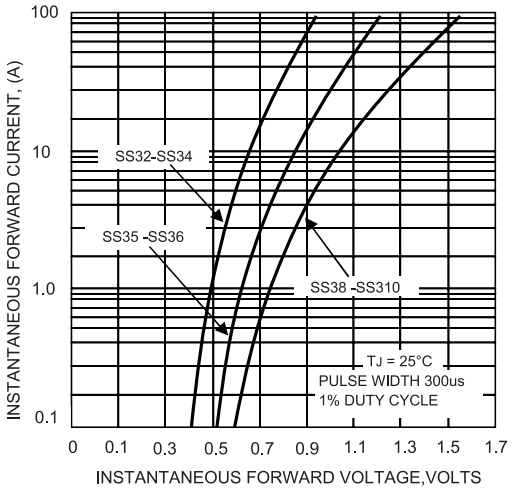


FIG.4-TYPICAL JUNCTION CAPACITANCE

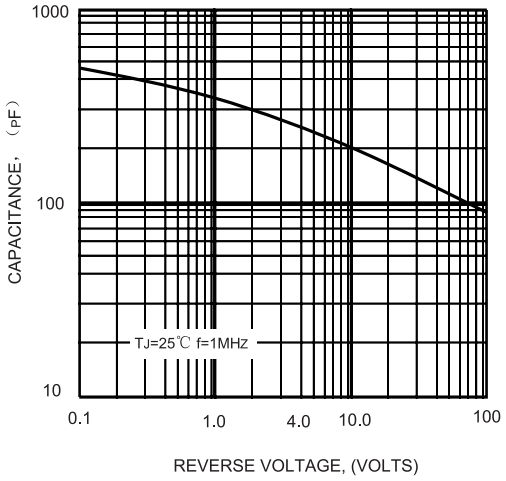
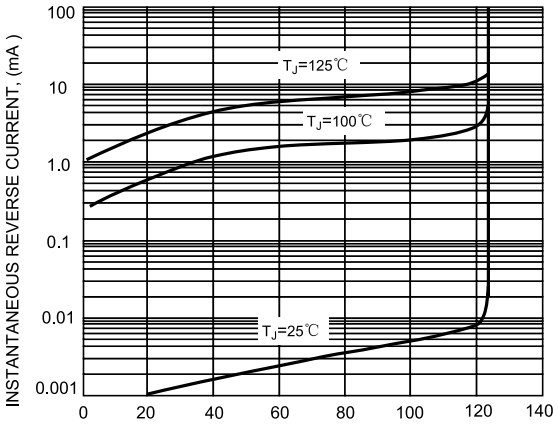
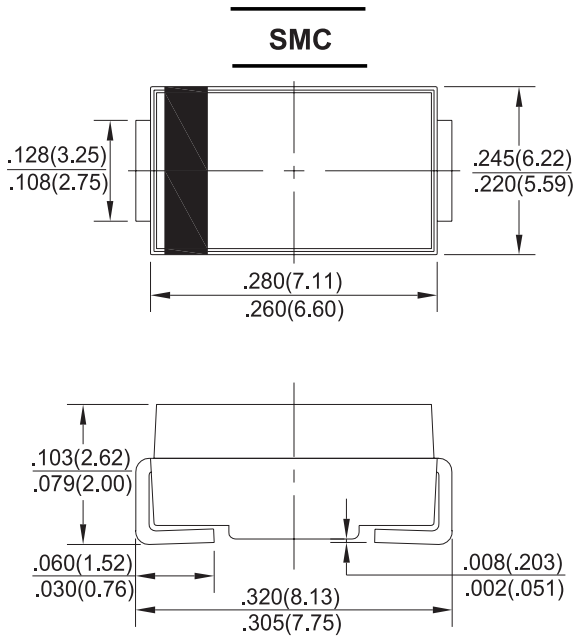


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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