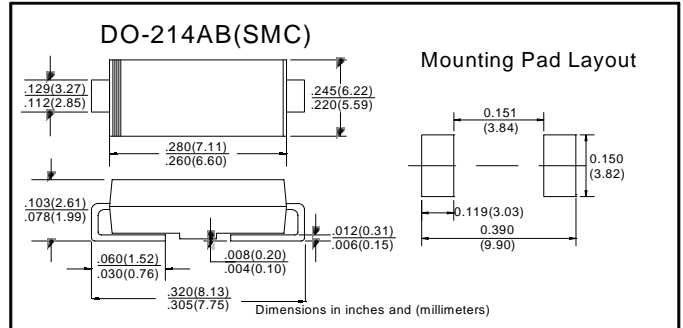


## Schottky Rectifier

### ■ Features

- $I_o$  3.0A
- $V_{RRM}$  20V-200V
- High surge current capability
- ◇ UL Recognized File # E-326243
- ◇ For surface mounted application
- ◇ Metal to silicon rectifier, majority carrier conduction
- ◇ Low forward voltage drop
- ◇ Easy pick and place
- ◇ High surge current capability
- ◇ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ◇ Epitaxial construction
- ◇ High temperature soldering : 260°C/10 seconds at terminals

### ■ Outline Dimensions and Mark



### ■ Applications

- Rectifier

### ■ Mechanical Data

- ◇ Case: Molded plastic
- ◇ Terminals: Pure tin plated, lead free
- ◇ Polarity: Indicated by cathode band
- ◇ Packaging: 16mm tape per EIA Std RS-481
- ◇ Weight: 0.21 gram

### ■ 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	Symbol	SS 32	SS 33	SS 34	SS 35	SS 36	SS 39	SS 310	SS 315	SS 320	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	100				70					A
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A	$V_F$	0.50			0.75		0.85		0.95		V
Maximum Reverse Current @ Rated VR $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	0.5					0.3				mA
		20			10		-				
		-					5				
Typical Thermal Resistance	$R_{\theta JL}$	17									°C/W
	$R_{\theta JA}$	55									
Operating Temperature Range	$T_J$	- 55 to + 150									°C
Storage Temperature Range	$T_{STG}$	- 55 to + 150									°C

Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle



# SS32 ~ SS320

## Characteristics(Typical) (TA=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

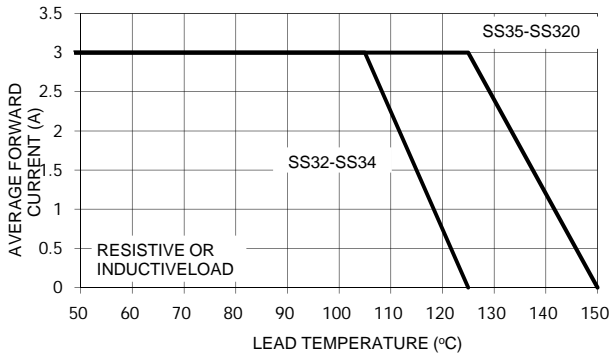


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

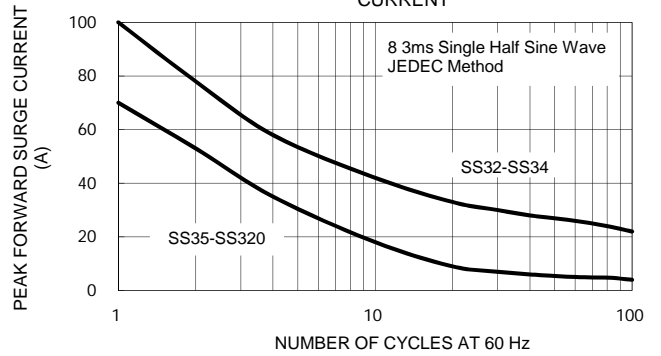


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

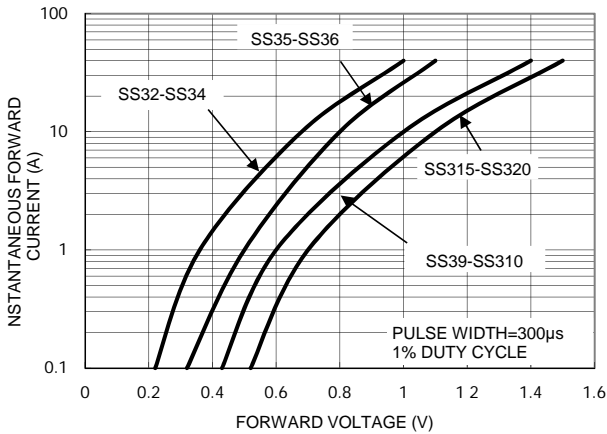


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

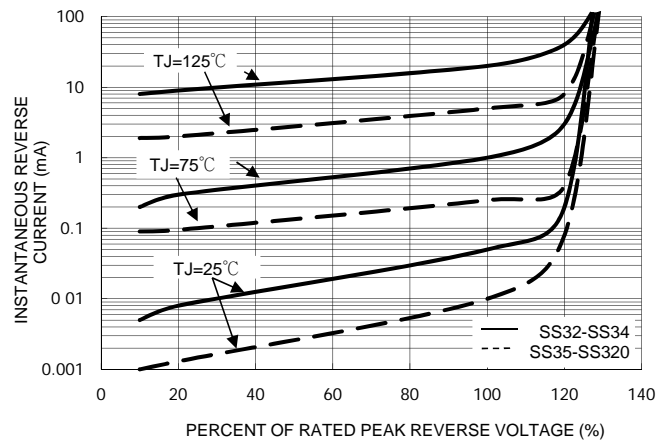


FIG. 5 TYPICAL JUNCTION CAPACITANCE

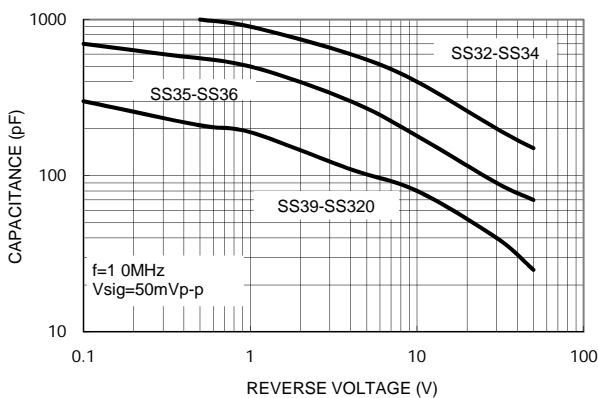


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE

