



Micro Commercial Components  
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# SS32 THRU SS36

## Features

- Low profile Surface Mount package
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Built-in strain relief
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guarding for overvoltage protection
- High Temp Soldering: 250°C for 10 Seconds At Terminals

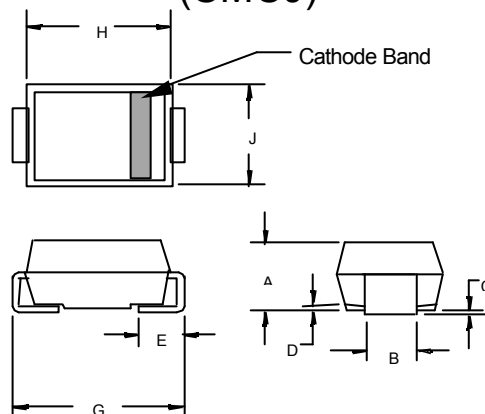
## 3 Amp Schottky Rectifier 20 to 60 Volts

## Maximum Ratings

- JEDEC DO-214AB molded plastic body
- Solder plated, solderable per MILSTD750, Method 2026
- Color band denotes cathode end

MCC Part Number	Device Marking	Maximum Repetitive Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS32	S2	20V	14V	20V
SS33	S3	30V	21V	30V
SS34	S4	40V	28V	40V
SS35	S5	50V	35V	50V
SS36	S6	60V	42V	60V

## DO-214AB (SMCJ)



## Electrical Characteristics @ 25°C Unless Otherwise Specified

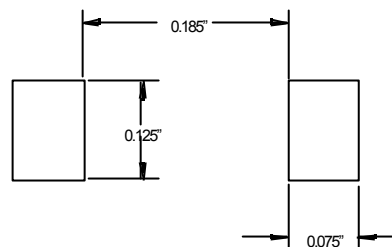
Maximum Average Forward Current	$I_{F(AV)}$	3.0A	$T_J = 25^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	.50V .75V	$I_{FM} = 3.0A^{(1)}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	.5mA 20mA 10mA	$T_J = 25^\circ\text{C}^{(1)}$ $T_J = 100^\circ\text{C}$
Typical Thermal resistance <sup>(2)</sup>	$R_{JA}$ $R_{JL}$	55°C/W 17°C/W	
Operating junction temperature range	$T_J$	-55 to +150°C	
Storage temperature range	$T_{STG}$	-55 to +150°C	

(1) Pulse test: Pulse width 300 usec, Duty cycle 1%

(2) P.C.B. mounted 0.55x0.55" (14x14mm) copper pad areas

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.075	.095	1.90	2.41	
B	.115	.121	2.92	3.07	
C	.004	.008	.10	.20	
D	—	.02	—	.51	
E	.030	.060	.76	1.52	
F	—	—	—	—	
G	.305	.320	7.75	8.13	
H	.260	.280	6.60	7.11	
J	.220	.245	5.59	6.22	

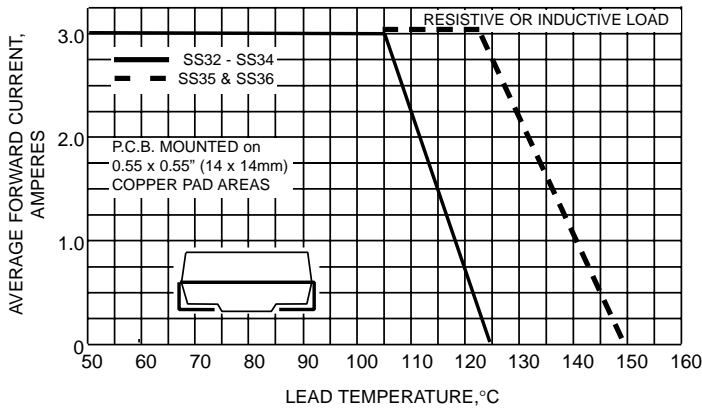
## SUGGESTED SOLDER PAD LAYOUT



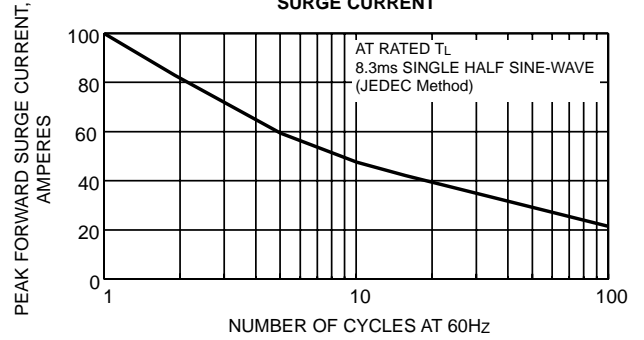
# SS32 thru SS36



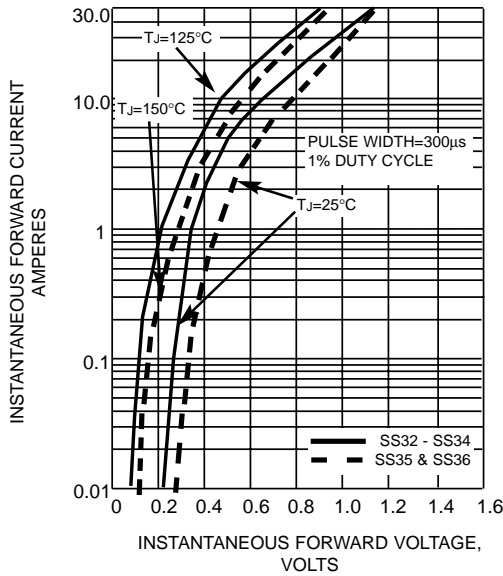
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



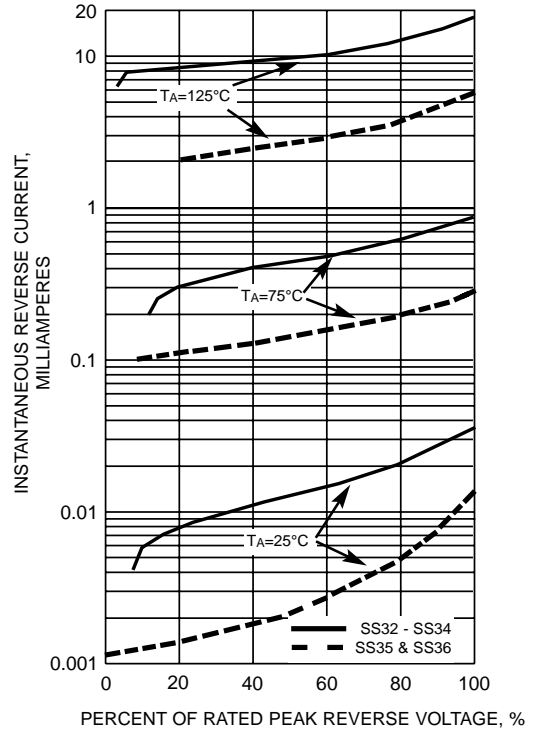
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



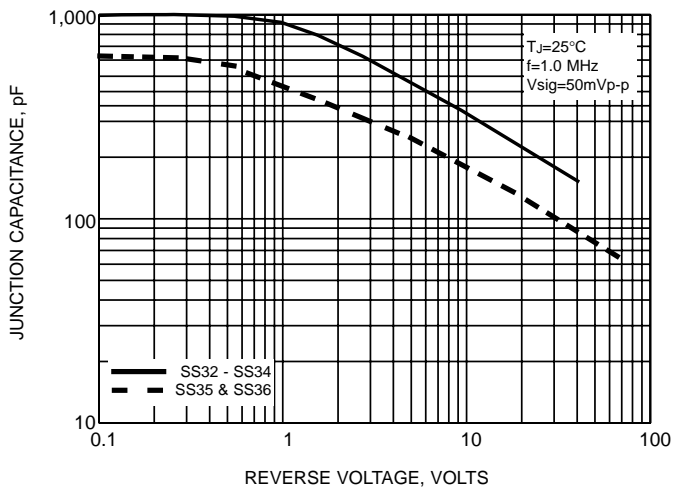
**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**



**FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

