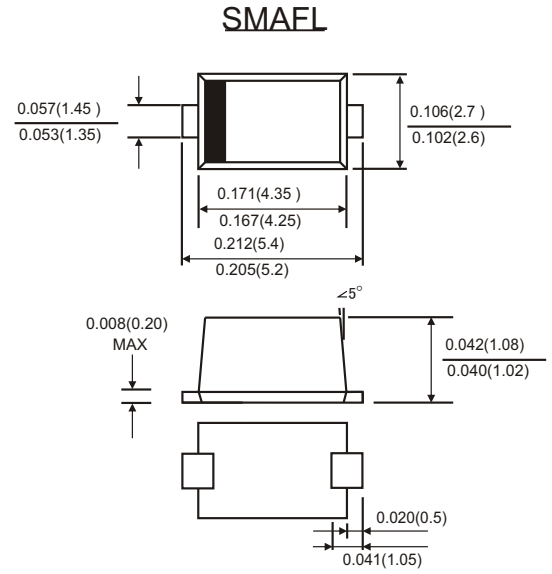


# Schottky barrier rectifier

## SS32T THRU SS320T 20 to 200 V 3.0 A

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction for surface mount applications
- Low power loss ,high efficiency,high current capability ,Low forward voltage drop
- Low profile package,built-in strain relief ,ideal for automated placement
- For use in low voltage ,high frequency inverters,
- free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 C/10 seconds at terminals
- Component accordance with HS029 and WEEE029C



Dimensions in inches and (millimeters)

### MECHANICAL DATA

- Case: SMAFL(DO-214AC) molded plastic body
- TerMInals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end Weight: 0.002ounce, 0.064 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25 C°ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

	Symbols	SS 32T	SS 33T	SS 34T	SS 35T	SS 36T	SS 38T	SS 310T	SS 315T	SS 320T	Volts
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)	I(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	80.0									Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1 )	V <sub>F</sub>	0.55		0.75		0.85		0.90		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T <sub>A</sub> =25 C	0.2									mA
	T <sub>A</sub> =100 C	20			10						
Typical junction capacitance(Note 3)	C <sub>J</sub>	250			160						pF
Typical thermal resistance (Note 2)	R <sub>θJA</sub>	88.0									°C/W
	R <sub>θJL</sub>	28.0									
Operating junction temperature range	T <sub>J</sub>	-65 to+150									°C
Storage temperature range	T <sub>STG</sub>	-65 to+150									°C

Notes: 1. Pulse test: 300 μs pulse width,1% duty cycle

2. P.C.B. mounted 0.55 X 0.55"(14 X 14mm)copper pad areas

3. Measured at 1MHz and reverse voltage of 4.0volts

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FIG.1-FORWARD CURRENT DERATING CURVE

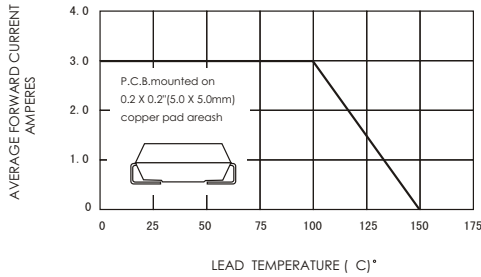


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

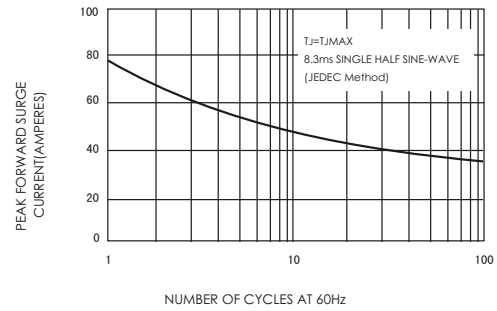


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

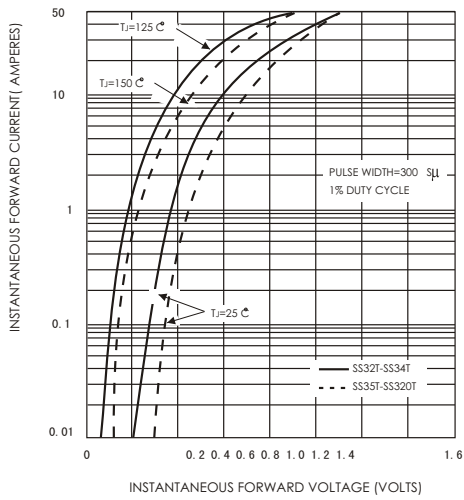


FIG.4-TYPICAL REVERSE CHARACTERISTICS

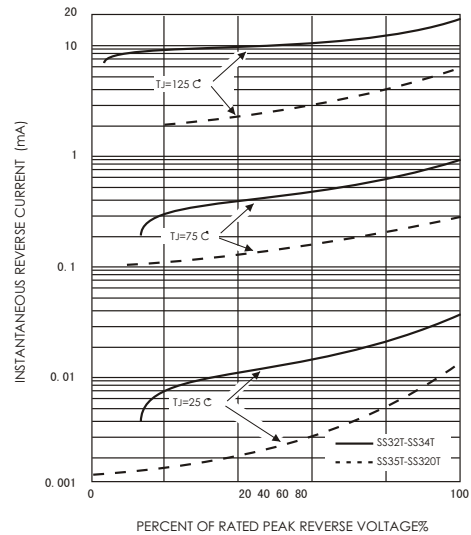


FIG.5-TYPICAL JUNCTION CAPACITANCE

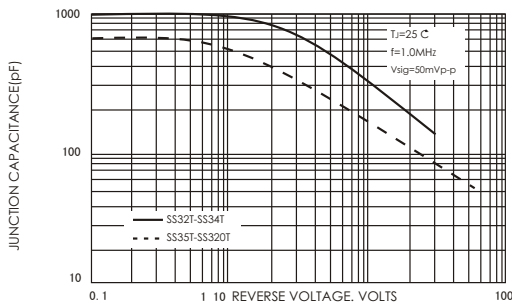


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

