

SS32 THRU SS3A

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage – 20 to 100 Volts

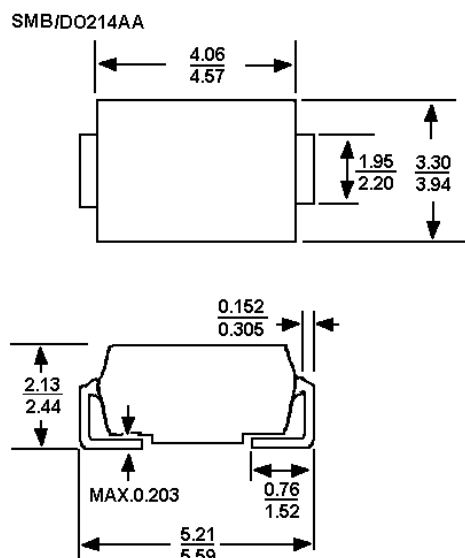
Forward Current – 3.0 Amperes

Features

- Plastic package has Underwriters Laboratories 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: 250/10sec at terminals

Mechanical Data

- Case: JEDEC DO-214AA, molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



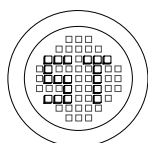
Absolute Maximum Ratings and Characteristics

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

	Symbols	SS32	SS33	SS34	SS35	SS36	SS38	SS3A	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	57	71	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current at 0.375"(9.5mm) lead length	I _{F(AV)}	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80							A
Maximum Instantaneous forward voltage at 3.0A (Note 1)	V _F	0.50			0.75		0.85		V
Maximum instantaneous reverse Current at rated DC blocking at voltage (Note 1) at T _A = 25? at T _A = 100?	I _R	1.5							mA
	I _R	20			10				
Typical junction capacitance	C _{tot}	250				160			pF
Typical thermal resistance (Note 2)	R _{θJA}	55.0							°C/W
	R _{θJA}	17.0							
Operating junction temperature range	T _J	-65 to +125				-65 to +150			°C
Storage temperature range	T _S	-65 to +150							°C

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

2. P.C.B. mounted 0.55X0.55"(14X14mm) copper pad areas



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РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

FIG. 1-FORWARD CURRENT DERATING CURVE

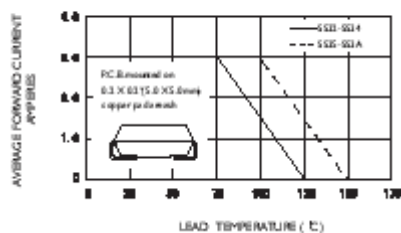


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

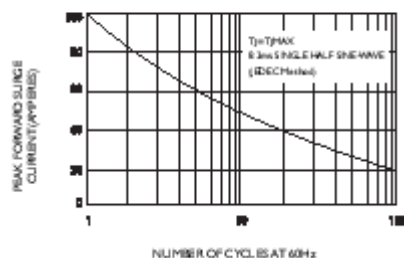


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

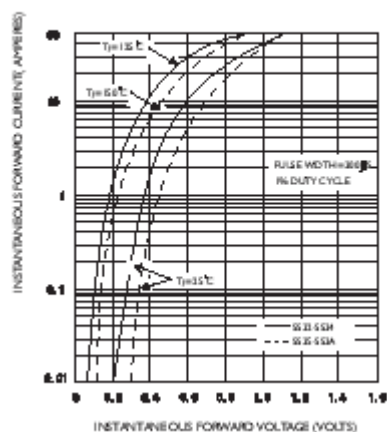


FIG.4-TYPICAL REVERSE CHARACTERISTICS

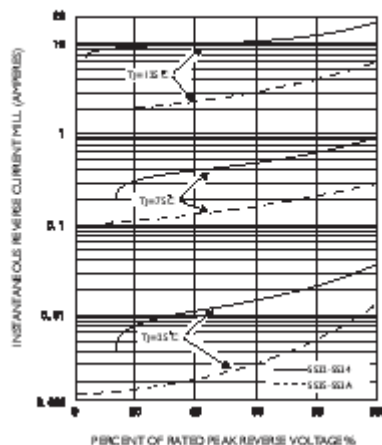


FIG.5-TYPICAL JUNCTION CAPACITANCE

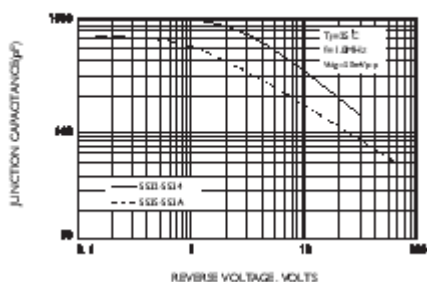
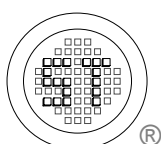
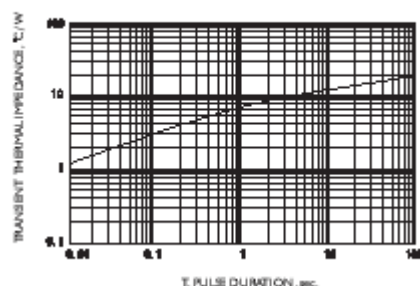
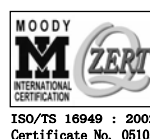


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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ISO 9001 : 2000
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