Kingtronics®

SS32 THRU SS320

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes

FEATURES

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Metal silicon junction, majority carrier conduction
- ◆Low power loss, high efficiency
- ◆Built-in strain relief, ideal for automated placement
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed:
 250°C/10 seconds at terminals

MECHANICAL DATA

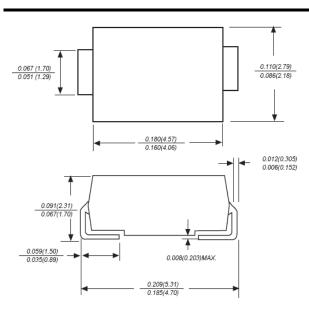
Case: JEDEC DO-214AC molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.058 grams

DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	Vrms	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at TL(see fig.1)	I(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lгsм	70.0									Amps
Maximum instantaneous forward voltage at 3.0A	VF	0.55			0.70		0.85		0.95		Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	20			0.5		10		1.0		mA
Typical junction capacitance (NOTE 1)	Сı	500			300					pF	
Typical thermal resistance (NOTE 2)	RQJA				55.0			62	2.0	°C/W	
Operating junction temperature range	TJ	-65 to +125			-65 to +150						$^{\circ}\mathbb{C}$
Storage temperature range	Тѕтс	-65 to +150								$^{\circ}\mathbb{C}$	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.

2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

FIG. 1- FORWARD CURRENT DERATING CURVE

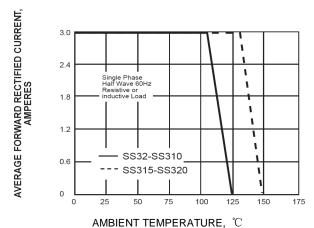
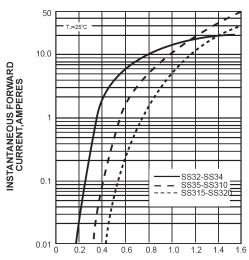
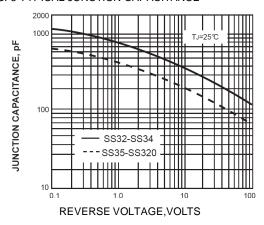


FIG. 3-TYPICAL INSTANTANEOUS FORWARDCHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

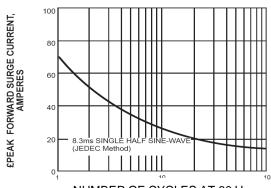
FIG. 5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.

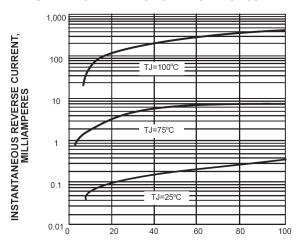
FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD

SURGE CURRENT



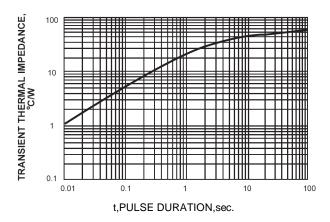
NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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