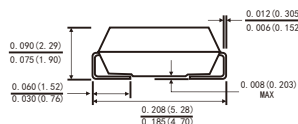
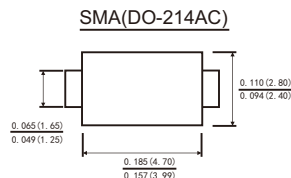


SCHOTTKY BARRIER RECTIFIER

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 in accordance to RoHS 2011/65/EU
- AEC-Q101 unified and PPAP capable



Dimensions in inches and (millimeters)



AEC-Q101 Qualified

MECHANICAL DATA

- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end

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	KWSS 52-V	KWSS 53-V	KWSS 54-V	KWSS 56-V	KWSS 510-V	KWSS 515-V	KWSS 520-V	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	60	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	42	71	105	140	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current (see fig.1)	I(AV)	5.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T _J)	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 5.0 A(Note 1)	V _F	0.55			0.70	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	I _R	100			20			μA
	TA=100°C		5			-			mA
	TA=125°C		-			3			
Typical junction capacitance(Note 3)	C _J	500			400			pF	
Typical thermal resistance (Note 2)	RθA RθL	88.0 28.0							°C/W
Operating junction temperature range	T _J	-55 to+150							°C
Storage temperature range	T _{STG}	-55 to+150							°C

Notes: 1. Pulse test: 300 μ s pulse width

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

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

FIG.1-FORWARD CURRENT DERATING CURVE

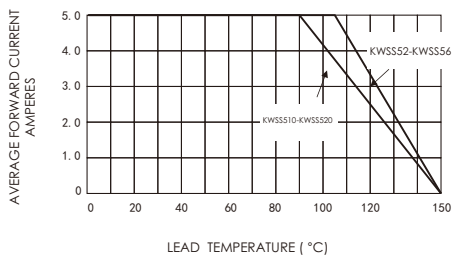


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

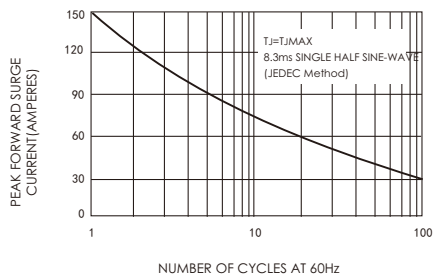


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

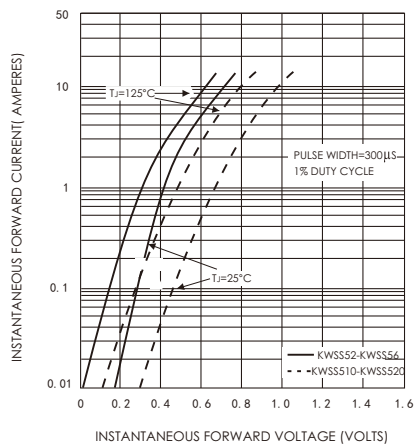


FIG.4-TYPICAL REVERSE CHARACTERISTICS

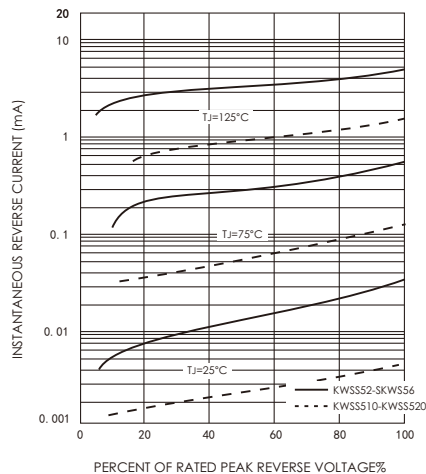


FIG.5-TYPICAL JUNCTION CAPACITANCE

