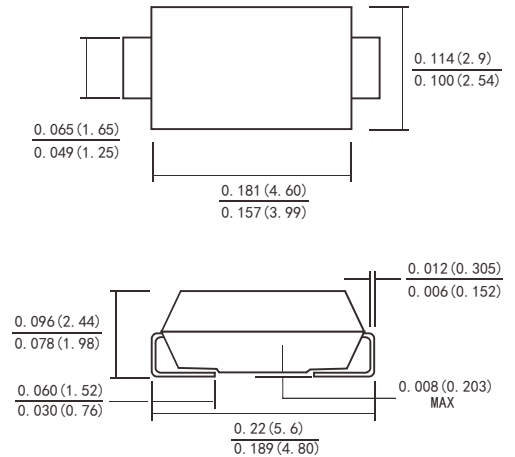


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

 Reverse Voltage - 20 to 100 Volts
 Forward Current - 3.0Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Built-in strain relief
- For surface mounted applications
- Low profile package
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- 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 2002/95/EC and WEEE 2002/96/EC

SMA(DO-214AC)


Dimensions in inches and (millimeters)

MECHANICAL DATA

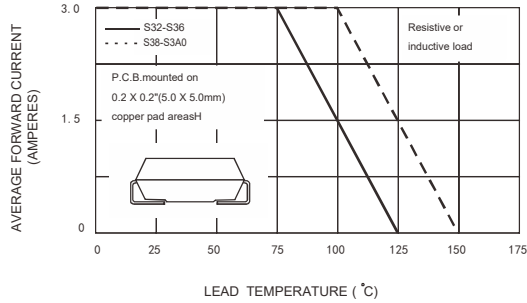
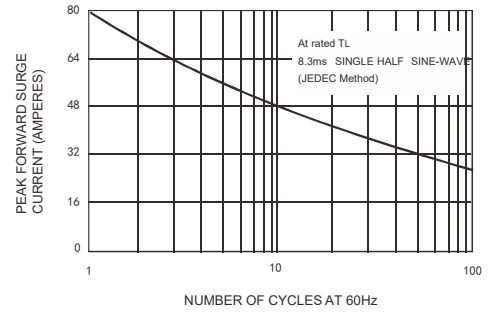
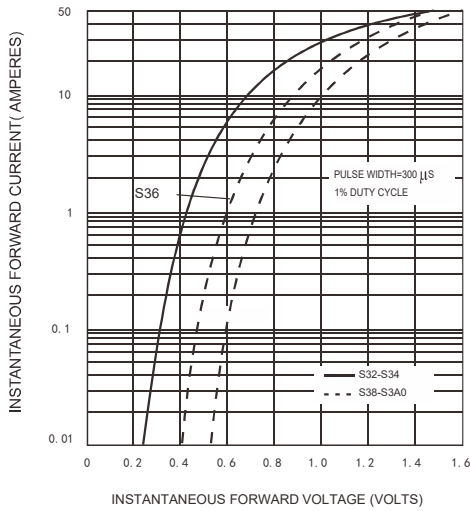
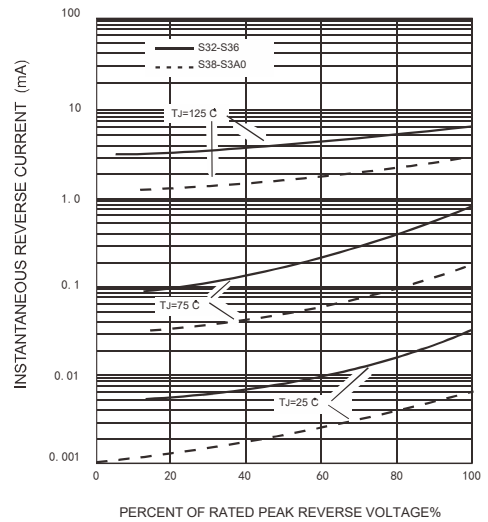
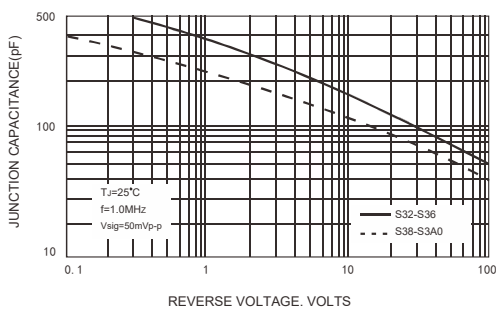
- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

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%.)

	VRRM	S32	S33	S34	S35	S36	S38	S3A0	Volts	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	Volts	
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	Volts	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	Volts	
Maximum average forward rectified current (See Fig. 1)	I(AV)	3.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80.0							Amps	
Maximum instantaneous forward voltage at 3.0 A(note 1)	VF	0.55			0.75		0.85		Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _a =25°C	0.2						0.01	mA	
	T _a =100°C	10.0						2		
Typical thermal resistance (Note 2)	R _{θJA} R _{θJL}	88.0 28.0								°C/W
Operating junction temperature range	T _J	-65 to+125					-65 to+150			°C
Storage temperature range	T _{STG}	-65 to+150								°C

- Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle
 2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

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


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