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
- AEC-Q101 qualified (Automotive grade with suffix "Q".)
- Exsemi technology

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Number	SYMBOLS	SS 32A	SS 33A	SS 34A	SS 35A	SS 36A	SS 38A	SS 310A	SS 315A	SS 320A	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T_L(see fig.1)	$I_{(AV)}$	3.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80.0									Amps
Maximum instantaneous forward voltage at 3.0A	V_F	0.50			0.60		0.78			0.83	Volts
Maximum DC reverse current T_A=25℃	I_R	10					1				uA
at rated DC blocking voltage T_A=100℃		1000					1500				
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	55.0									°C/W
Operating junction temperature range	T_J,	-50 to +150					-50 to +175				°C
Storage temperature range	T_{STG}	-50 to +150					-50 to +175				°C

Note: 1.P.C.B. mounted with 0.6"0.6" (16 mm x 16mm) cooper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

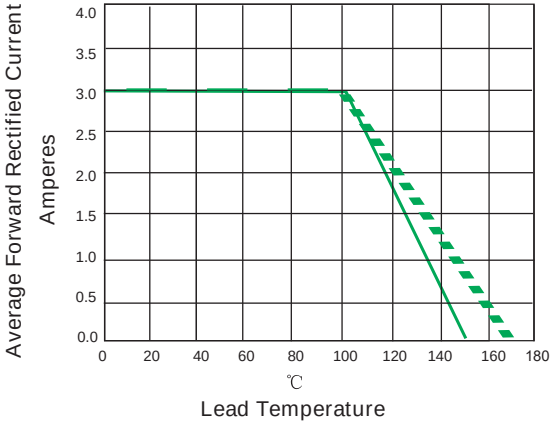


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

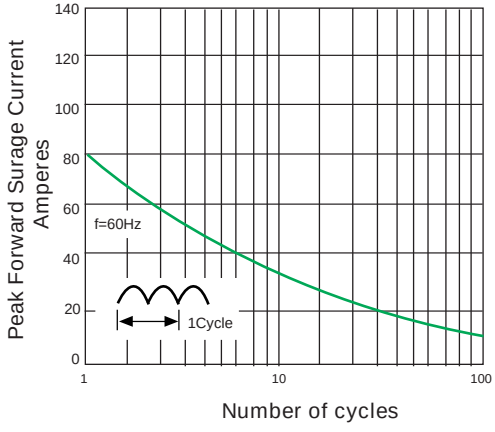


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

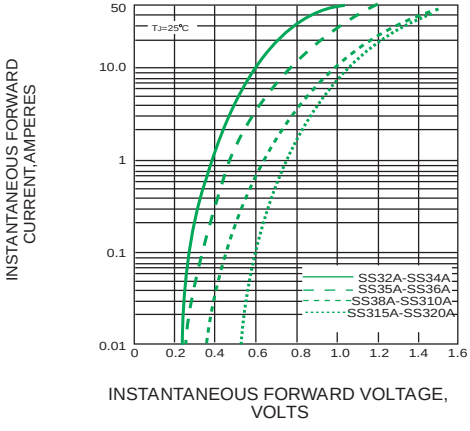
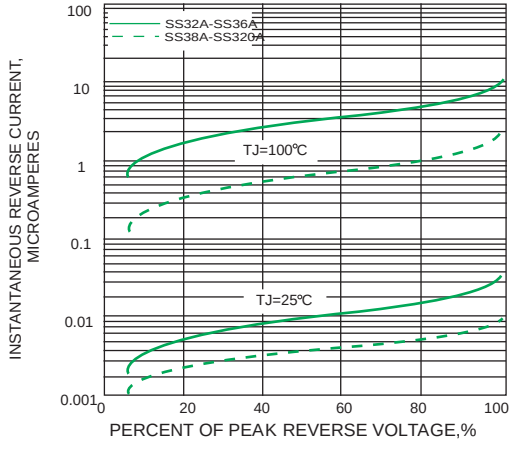
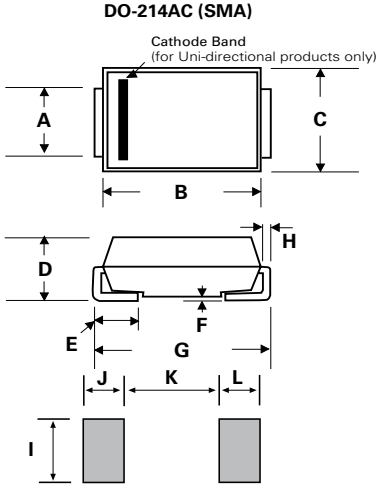


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Dimensions

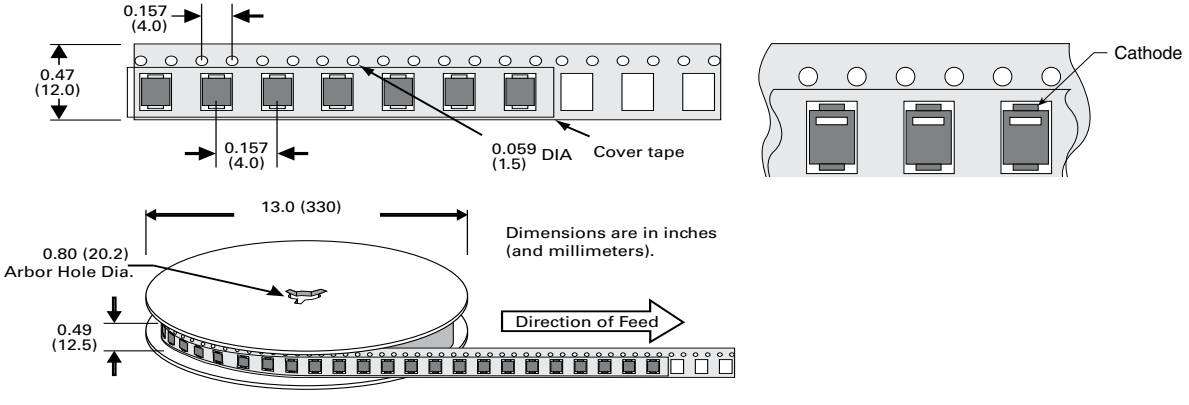


Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.047	0.067	1.200	1.700
B	0.154	0.185	3.900	4.700
C	0.095	0.114	2.400	2.900
D	0.075	0.096	1.900	2.440
E	0.030	0.060	0.760	1.520
F	-	0.008	-	0.203
G	0.185	0.222	4.700	5.660
H	0.006	0.012	0.152	0.305
I	0.066	-	1.680	-
J	0.068	-	1.720	-
K	-	0.090	-	2.300
L	0.068	-	1.720	-

Ordering Information

Part number	Component Package	Quantity	Packaging Option	Packaging Specification
SS3XXA	DO-214AC	5000	Tape & Reel - 12mm tape/13" reel	EIA STD RS-481

Tape and Reel Specication



Note: Devices are packde in accordance with EIA standard RS-481-Aand specification given above.