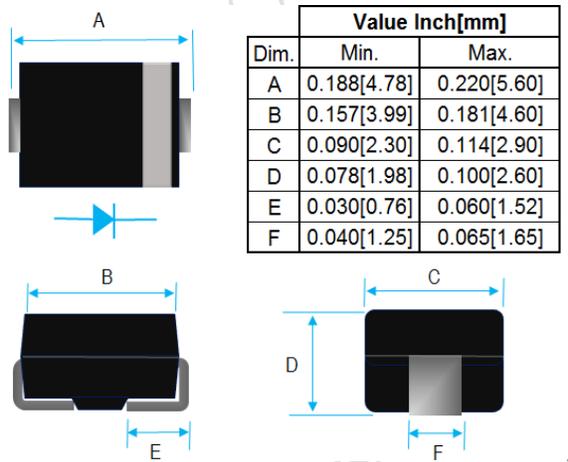


## 3A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

	Value Inch[mm]	
	Dim.	Min.
A	0.188[4.78]	0.220[5.60]
B	0.157[3.99]	0.181[4.60]
C	0.090[2.30]	0.114[2.90]
D	0.078[1.98]	0.100[2.60]
E	0.030[0.76]	0.060[1.52]
F	0.040[1.25]	0.065[1.65]

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW  $V_F$
3. MAJORITY CARRIER CONDUCTION
4. BUILT-IN STRAIN RELIEF
5. LOW PROFILE
6. CASE: MOLDED PLASTIC, DO-214AC (SMA)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: INDICATED BY CATHODE BAND
9. WEIGHT: 0.064 GRAMS
10. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +125°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1)	$I_O$	3.0	A
PEAK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE	$I_{FSM}$	80	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	$C_j$	300	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	55	°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JL}$	17	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	$I_R$	1000	uA

NOTES: 1. PULSE TEST: 300µs PULSE WIDTH, 1% DUTY CYCLE

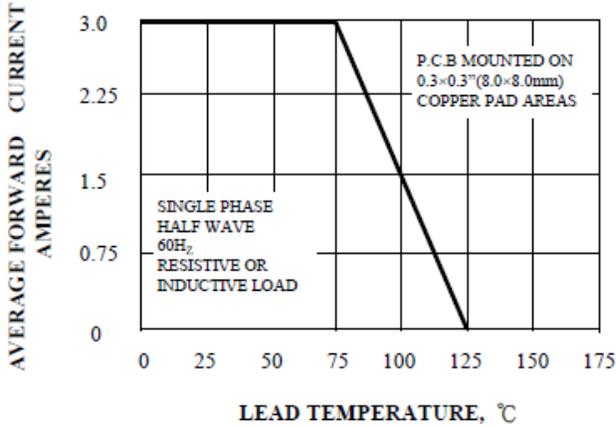
2. P.C.B. MOUNTED 0.55"x0.55 "(14x14 mm ) 0.013mm THICK COPPER PAD AREAS

3. MAXIMUM FORWARD VOLTAGE AT  $I_o$

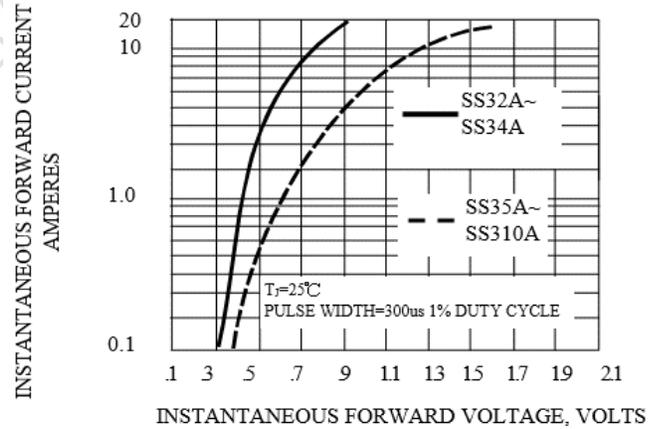
PART NUMBER	MAX. RECURRENT PEAK REVERSE VOLTAGE $V_{RRM}$ (V)	MAX. RMS VOLTAGE $V_{RMS}$ (V)	MAX. DC BLOCKING VOLTAGE $V_{DC}$ (V)	MAX. FORWARD VOLTAGE $V_F$ (V)	MARKING
SS32A	20	14	20	0.50	SS32A
SS33A	30	21	30	0.50	SS33A
SS34A	40	28	40	0.50	SS34A
SS35A	50	35	50	0.70	SS35A
SS36A	60	42	60	0.70	SS36A
SS38A	80	56	80	0.85	SS38A
SS310A	100	70	100	0.85	SS310A

## RATING AND CHARACTERISTIC CURVES

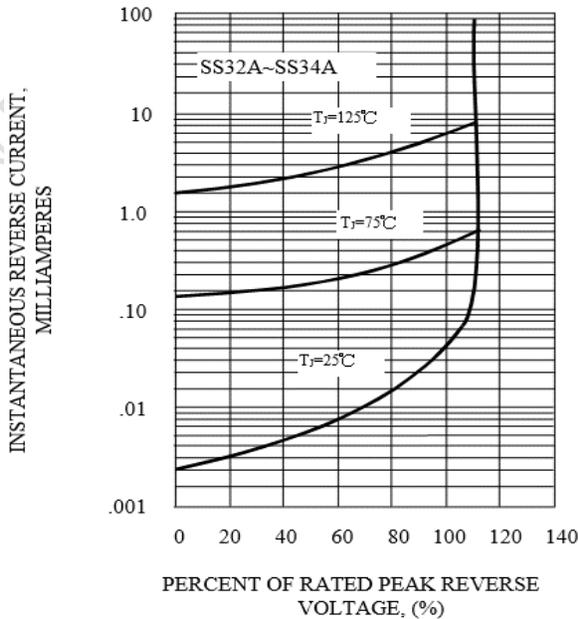
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



**FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 3A - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 3B - TYPICAL REVERSE CHARACTERISTICS**

