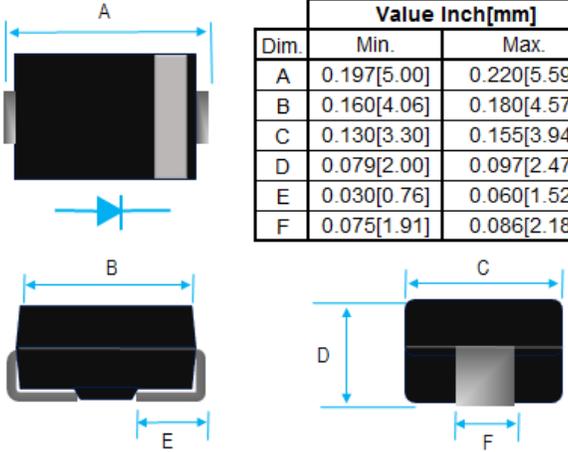


## 5A LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIERS

	<b>Value Inch[mm]</b>	
	Dim.	Min.
A	0.197[5.00]	0.220[5.59]
B	0.160[4.06]	0.180[4.57]
C	0.130[3.30]	0.155[3.94]
D	0.079[2.00]	0.097[2.47]
E	0.030[0.76]	0.060[1.52]
F	0.075[1.91]	0.086[2.18]

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. EXTREMELY LOW  $V_F$
3. BUILT-IN STRAIN RELIEF
4. MAJORITY CARRIER CONDUCTION
5. LOW POWER LOSS/LOW PROFILE
6. CASE: TRANSFER MOLDED, DO-214AA (SMB)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-750 METHOD 2026
9. WEIGHT: 0.093 GRAMS
10. RoHS COMPLIANT

## ELECTRICAL CHARACTERISTICS

### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1	$I_o$	5.0	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	150	A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	$C_J$	200	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	25	$^\circ\text{C/W}$
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 55 TO +150	$^\circ\text{C}$
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 55 TO +150	$^\circ\text{C}$
MAXIMUM REVERSE CURRENT AT $25^\circ\text{C}$	$I_R$	0.5	mA
MAXIMUM REVERSE CURRENT AT $100^\circ\text{C}$	$I_R$	10	mA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING $V_{RRM}/V_R$ (V)	MAX $V_{RMS}$ (V)	MAXIMUM FORWARD VOLTAGE @ $I_o$ DC, $V_F$ (V)
SS515B	150	105	0.90
SS520B	200	140	0.92

- NOTE :
1. MEASURED AT 1.0 MHz WITH APPLIED REVERSE VOLTAGE OF 4.0 VDC.
  2. PCB MOUNTED 0.55"x0.55" (14X14mm), 0.013mm THICK COPPER PAD AREAS.
  3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

## RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

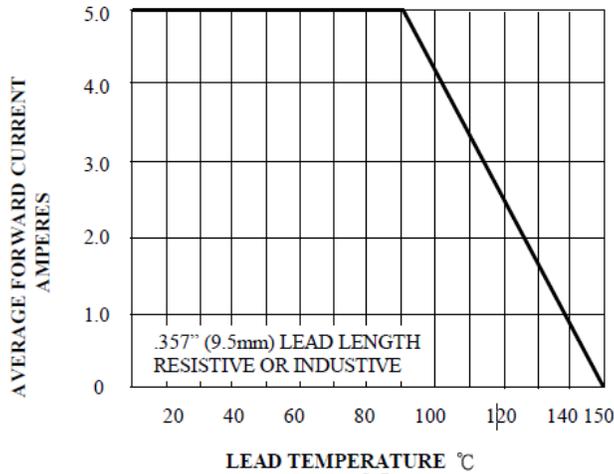


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

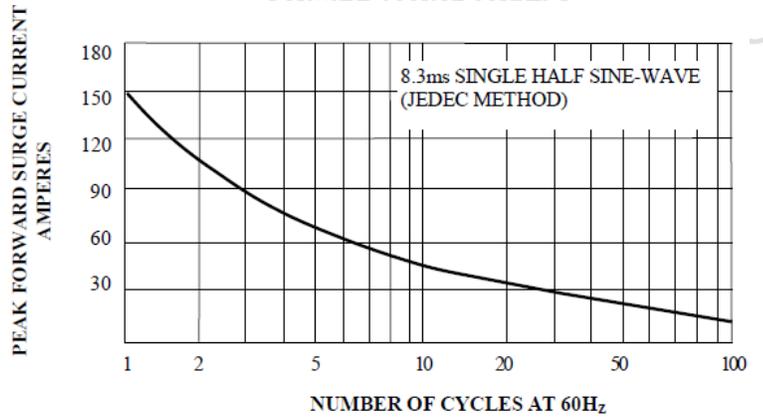


FIG. 3 - TYPICAL REVERSE

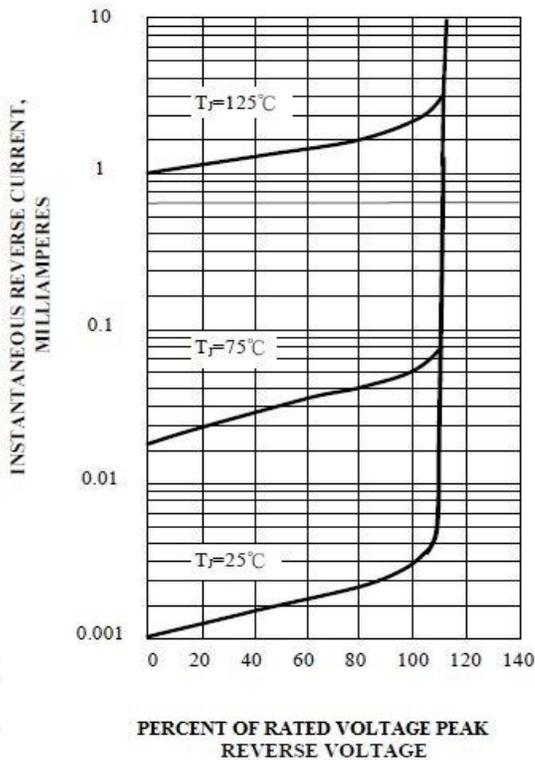


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

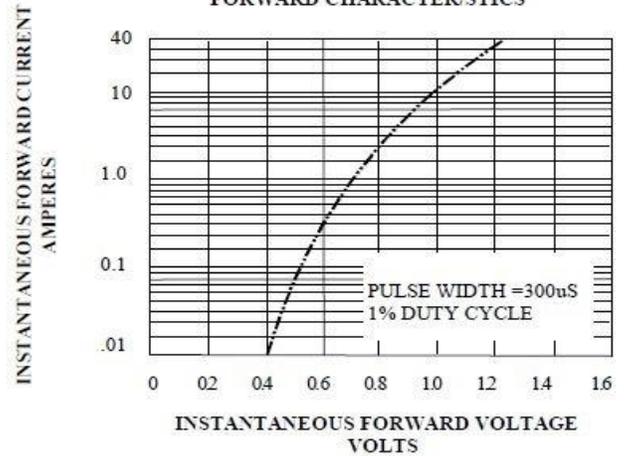


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

