

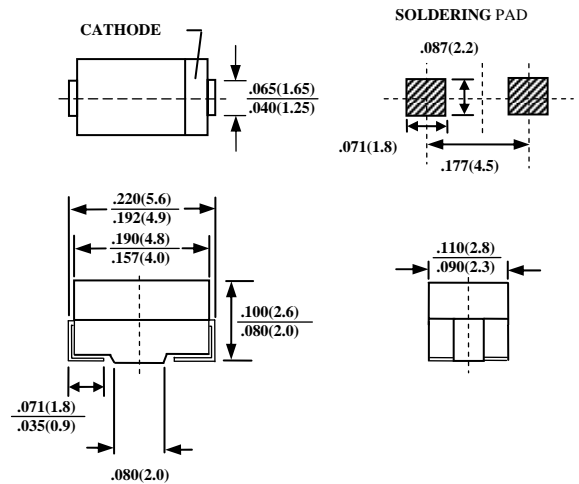
**1A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS**

**FEATURES**

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V-0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- LEAD PB FREE

**MECHANICAL DATA**

- CASE : TRANSFER MOLDED
- TERMINALS : SOLDERABLE PER MIL-STD-750, METHOD 2026
- POLARITY : CATHODE INDICATED BY COLOR BAND
- WEIGHT : 0.064 GRAMS



CASE : DO-214AC ( SMA )  
DIMENSIONS IN INCHES AND (MILLIMETERS)

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

RATINGS	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS17	SS18	SS19	SS110	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	20	30	40	50	60	70	80	90	100	V
MAXIMUM RMS VOLTAGE	$V_{RMS}$	14	21	28	35	42	49	56	63	70	V
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	20	30	40	50	60	70	80	90	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_J=90^{\circ}C$	$I_O$	1.0									A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	25									A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	$C_J$	70									PF
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 55 TO + 150									
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 55 TO + 125									

**ELECTRICAL CHARACTERISTICS (AT  $T_A=25^{\circ}C$  UNLESS OTHERWISE NOTED)**

CHARACTERISTICS	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS17	SS18	SS19	SS110	UNITS	
MAXIMUM FORWARD VOLTAGE AT $I_O$ DC	$V_F$	0.55		0.70			0.85				V	
MAXIMUM REVERSE CURRENT AT 25	$I_R$	0.5										mA

NOTE : 1. MEASURED AT 1.0 MHz AND APPLIED REVERSE VOLTAGE OF 4.0V D.C.

# RATINGS AND CHARACTERISTIC CURVE SS12 THRU SS110

