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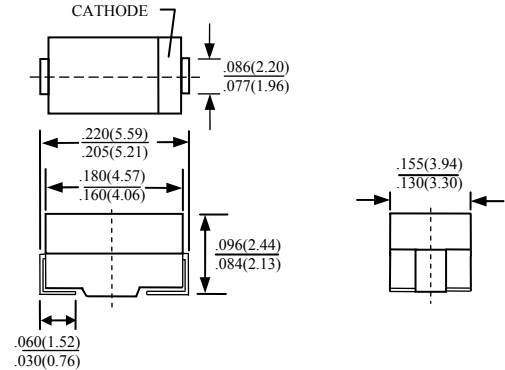
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2A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS22 THRU SS210

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS
LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING: 250°C/10 SECONDS
AT TERMINALS



MECHANICAL DATA

- CASE: MOLDED PLASTIC, DO-214AA (SMB), DIMENSIONS
IN MILLIMETERS (MILLIMETERS)
- TERMINALS: SOLDER PLATED
- POLARITY INDICATED BY CATHODE BAND
- WEIGHT 0.093 GRAMS

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	SS22	SS23	SS24	SS25	SS26	SS28	SS210	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	20	30	40	50	60	80	100	V
MAXIMUM RMS VOLTAGE	V_{RMS}	14	21	28	35	42	56	70	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	20	30	40	50	60	80	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1	I_O	2.0							A
MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE	I_{FSM}	50							A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jL}$	17							°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jA}$	75							°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO +150							°C
OPERATING TEMPERATURE RANGE	T_{OP}	-55 TO +125							°C

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

CHARACTERISTICS	SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	UNITS
MAXIMUM FORWARD VOLTAGE AT 2.0A AND 25°C(NOTE 1)	V _F	0.50			0.70		0.85		V
MAXIMUM REVERSE CURRENT AT T _A =25°C(NOTE 1)	I _R	1.0							mA
MAXIMUM REVERSE CURRENT AT T _A =125°C(NOTE 1)	I _R	20.0							mA

NOTE: 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

RATINGS AND CHARACTERISTIC CURVE SS22 THRU SS210

FIG. 1 - FORWARD CURRENT DERATING CURVE

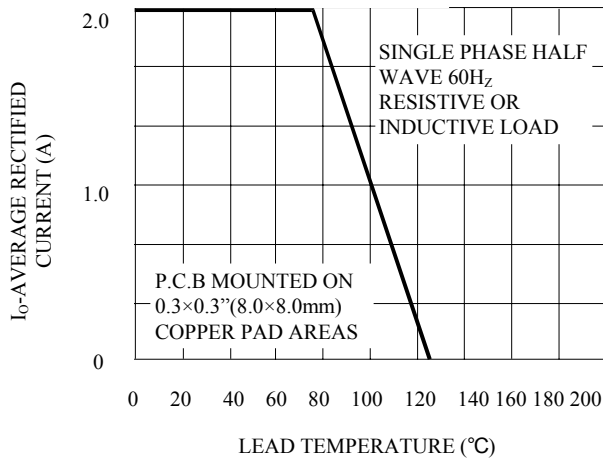


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

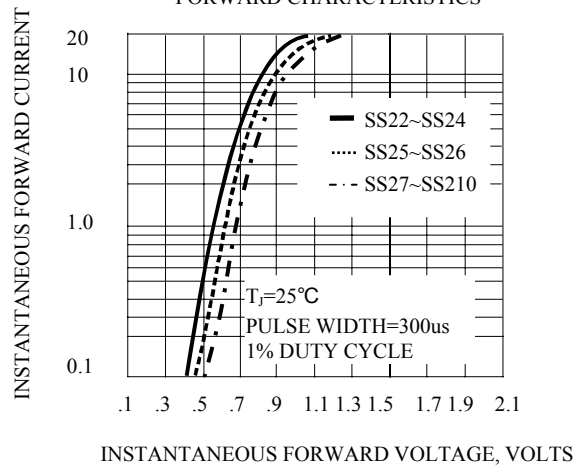


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

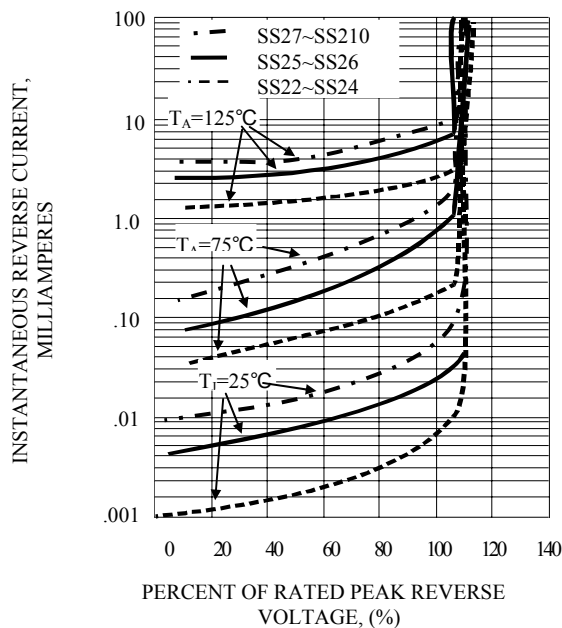


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

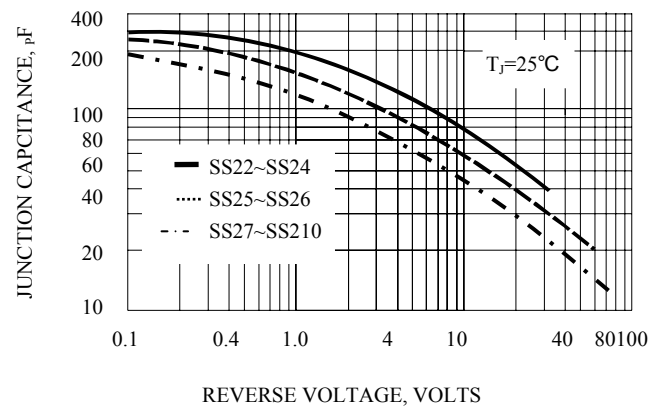


FIG. 5 - MAXIMUM NON-REPETITIVE SURGE CURRENT

