

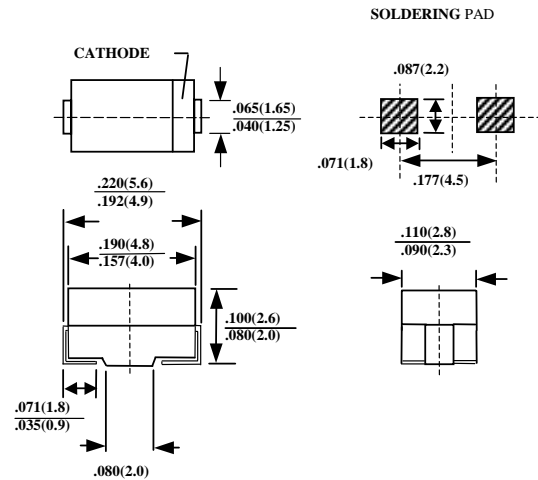
1A SURFACE MOUNT FAST RECOVERY RECTIFIERS

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
- FAST SWITCHING
- HIGH TEMPERATURE SOLDERING : 250°C/10 SECONDS AT
TERMINALS

MECHANICAL DATA

- CASE : MOLDED PLASTIC
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE 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	RS4933	RS4934	RS4935	RS4936	RS4937	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_L=90^\circ\text{C}$	I_O	1.0					A
MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE	I_{FSM}	30					A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	15					PF
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO + 150					°C
OPERATING TEMPERATURE RANGE	T_{OP}	-55 TO + 125					°C

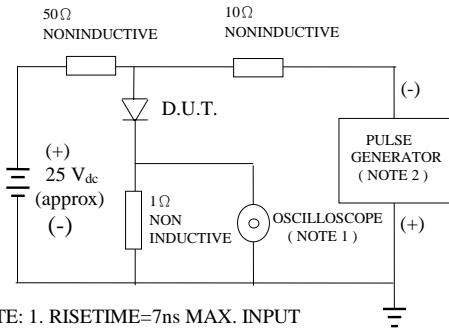
ELECTRICAL CHARACTERISTICS ($A_T, T_A=25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	RS4933	RS4934	RS4935	RS4936	RS4937	UNITS
MAXIMUM FORWARD VOLTAGE AT 1.0A AND 25°C	V_F	1.2					V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5					μA
MAXIMUM REVERSE RECOVERY TIME	T_{RR}	150					nS
MARKING		RS33	RS34	RS35	RS36	RS37	

NOTE : 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V

RATINGS AND CHARACTERISTIC CURVE RS4933 THRU RS4937

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1 MEGOHM 22PF
 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50 OHMS

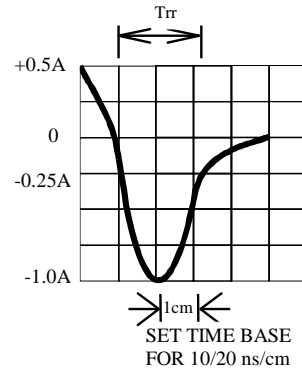


Fig. 2-MAXIMUM CURRENT DERATING CURVE

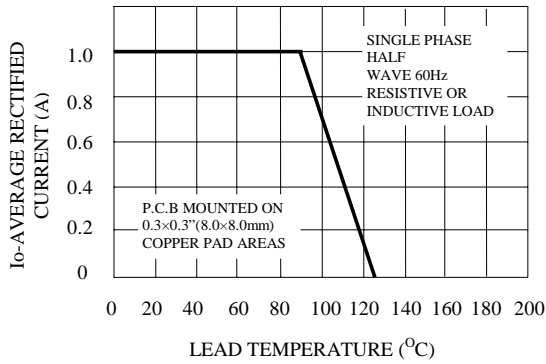


FIG. 3-TYPICAL JUNCTION CAPACITANCE

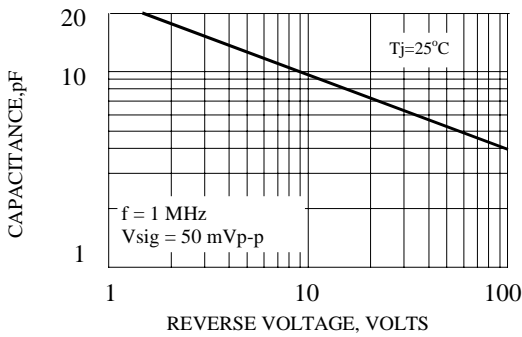


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

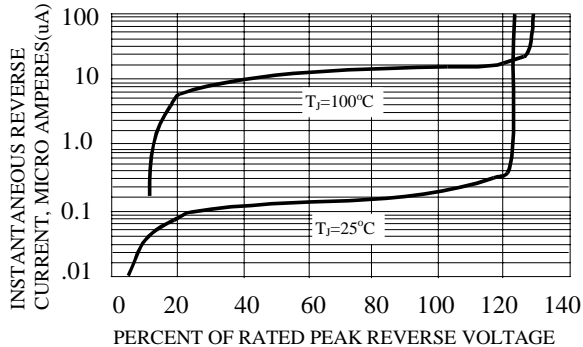


Fig. 5-MAXIMUM FORWARD SURGE CURRENT

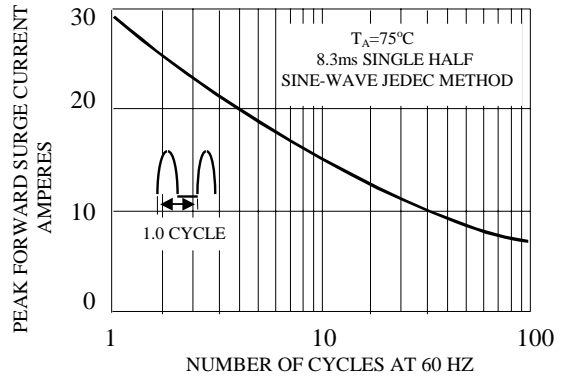


FIG. 6-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

