

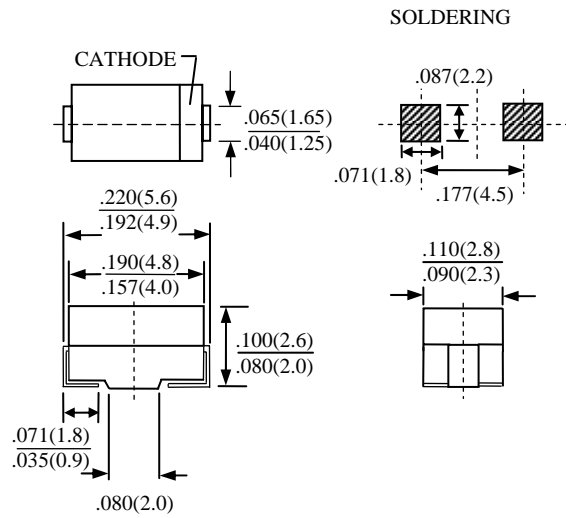
1A SURFACE MOUNT RECTIFIER

FEATURES

- IDEAL FOR SURFACE MOUNTED APPLICATION
- LOW PROFILE
- STRAIN RELIEF DESIGN
- HIGH TEMPERATURE SOLDERING : 250°C/10 SEC
- PB LEAD FREE

MECHANICAL DATA

- TERMINALS : PLATED TERMINAL, SOLDERABLE PER MIL-STD-202, METHOD 208
- CASE : MOLDED WITH UL-94 CLASS V-0 RECOGNIZED FLAME RETARTANT EPOXY
- POLARITY : COLOR BAND DENOTES CATHODE
- STANDARD PACKAGE : 12 m/m TAPE (EIA STD RS-481)
- 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	M1	M2	M3	M4	M5	M6	M7	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_L = 100^\circ C$	I_O	1.0							A
PEAK FORWARD SURGE CURRENT 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	30							A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	15							PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	θ_{JL}	30							°C/W
OPERATING AND STORAGE TEMPERATURE RANGE	T_{OP}	- 55 TO + 125							°C

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

CHARACTERISTICS	SYMBOL	M1	M2	M3	M4	M5	M6	M7	UNITS
MAXIMUM FORWARD VOLTAGE AT RATED FORWARD CURRENT AND 25°C	V_F	1.1							V
MAXIMUM DC REVERSE CURRENT TA 25°C AT RATED DC BLOCKING VOLTAGE TA=100°C	I_R	5.0							μA
		50.0							μA

- NOTE : 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VDC
2. THERMAL RESISTANCE FROM JUNCTION TO TERMINAL 5.0mm² (.013 mm THICK) LAND AREAS

RATINGS AND CHARACTERISTIC CURVES M1 THRU M7

FIG. 1 - FORWARD CURRENT DERATING CURVE

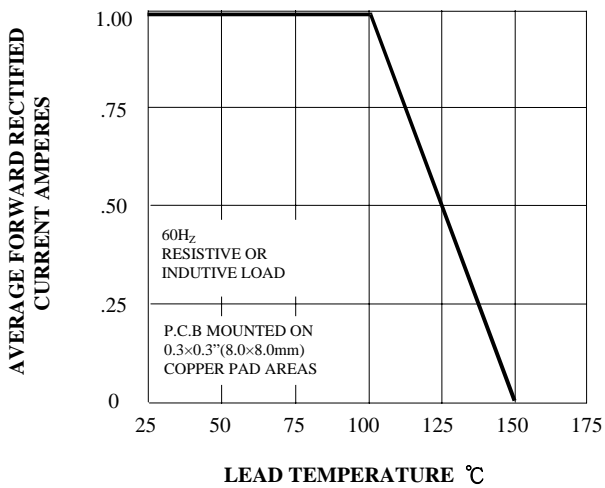


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

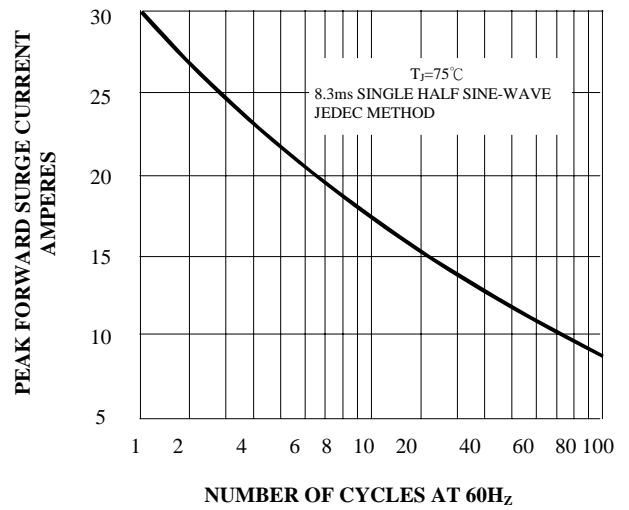


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

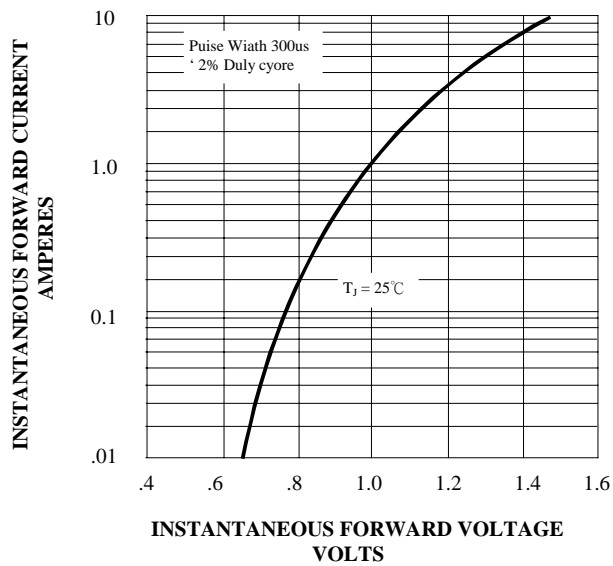


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

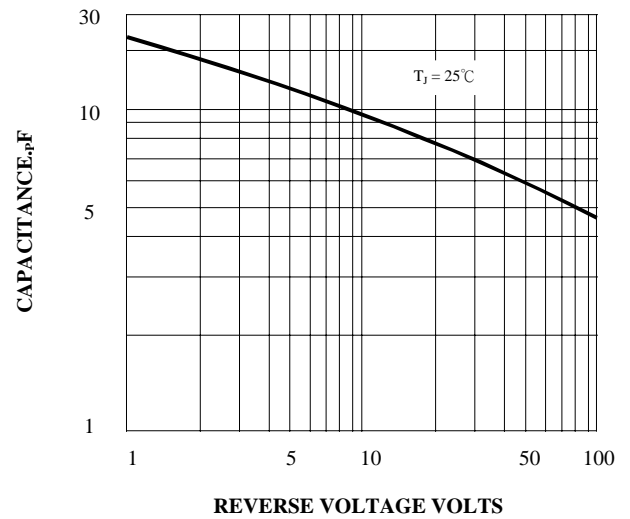


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

