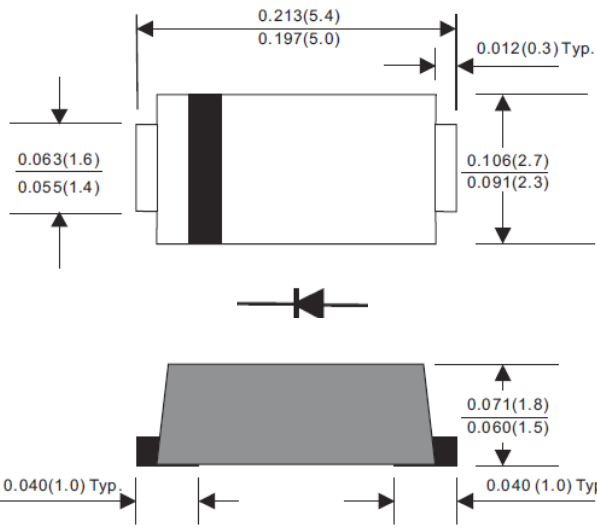


1A SMD GENERAL PURPOSE RECTIFIERS, 50V-1000V



Top View Dimensions:
 Total width: 0.213(5.4) / 0.197(5.0)
 Lead width: 0.012(0.3) Typ.
 Lead height: 0.063(1.6) / 0.055(1.4)
 Body height: 0.106(2.7) / 0.091(2.3)

Side View Dimensions:
 Lead thickness: 0.040(1.0) Typ.
 Body height: 0.071(1.8) / 0.060(1.5)
 Body width: 0.040(1.0) Typ.

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. EXCELLENT REVERSE LEAKAGE CURRENT AND THERMAL RESISTANCE
3. HIGH CURRENT CAPABILITY
4. GLASS PASSIVATED CHIP JUNCTION
5. HIGH SURGE CAPABILITY
6. CASE: TRANSFER MOLDED, DO-214AC (SMA-S)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-750 METHOD 2026
9. WEIGHT: 0.05 GRAMS
10. RoHS COMPLIANT, ADD SUFFIX "H" FOR HALOGEN FREE
i.e. FM4001-S-H: RoHS COMPLIANT/HALOGEN FREE

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (T_A =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM FORWARD RECTIFIED CURRENT, SEE FIG. 2	I _O	1	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	30	A
TYPICAL JUNCTION CAPACITANCE BETWEEN TERMINALS (NOTE 2)	C _J	15	pF
STORAGE TEMPERATURE RANGE	T _{STG}	- 65 TO +175	°C
OPERATING JUNCTION TEMPERATURE RANGE	T _J	- 55 TO +150	°C
MAX. DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE T _J = 25°C	I _R	5	μA
MAX. DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE T _J = 125°C	I _R	50	μA
TYPICAL THERMAL RESISTANCE	R _{θJA}	65	°C/W
	R _{θJC}	35	°C/W
TYPICAL FORWARD VOLTAGE AT I _F = 1A	V _F	1.1	V

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V _{RRM} /V _R (V)	MAX V _{RMS} (V)	MARKING
FM4001-S	50	35	A1
FM4002-S	100	70	A2
FM4003-S	200	140	A3
FM4004-S	400	280	A4
FM4005-S	600	420	A5
FM4006-S	800	560	A6
FM4007-S	1000	700	A7

NOTE : 1. 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-TYPICAL FORWARD CHARACTERISTICS

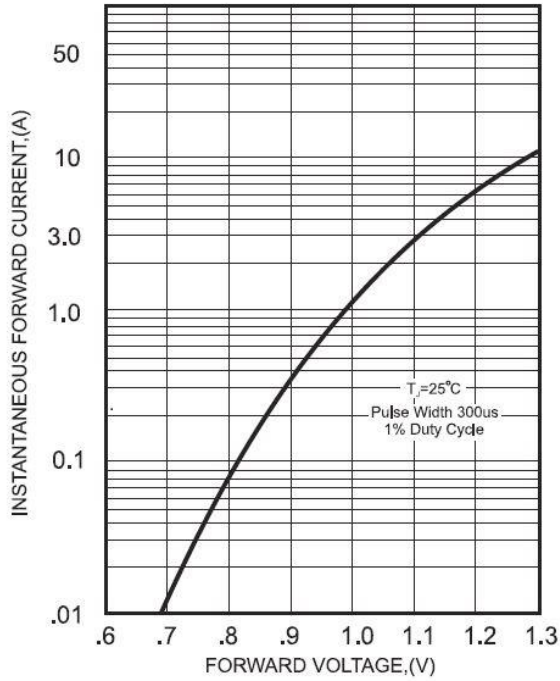


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

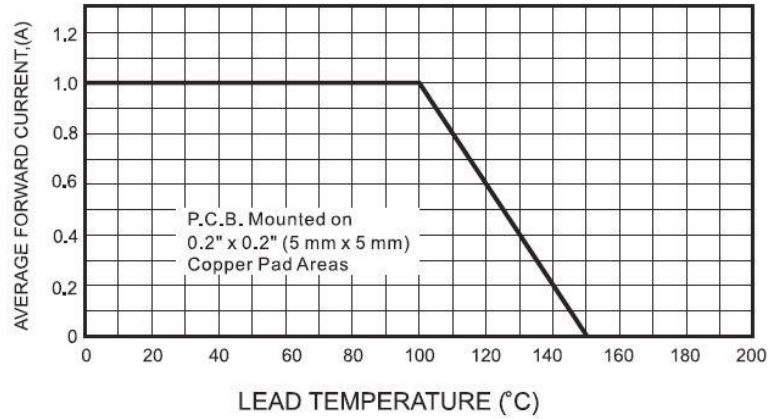


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

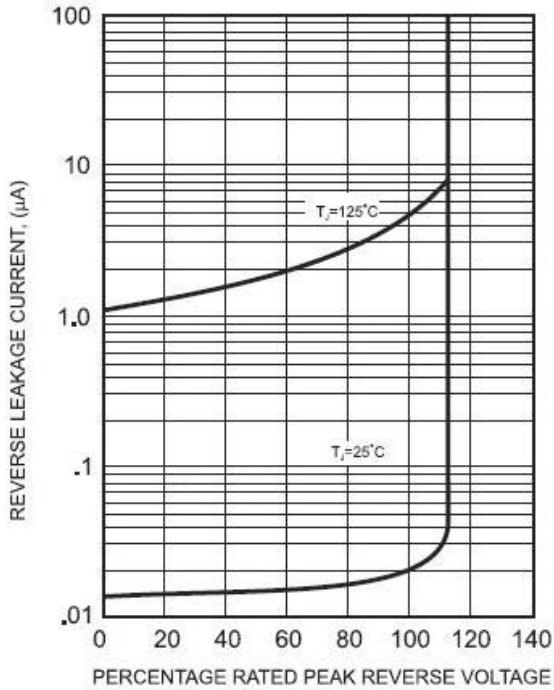


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

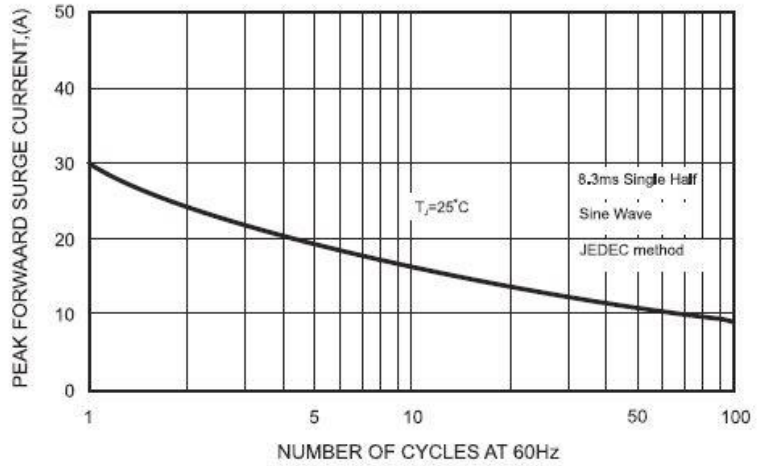
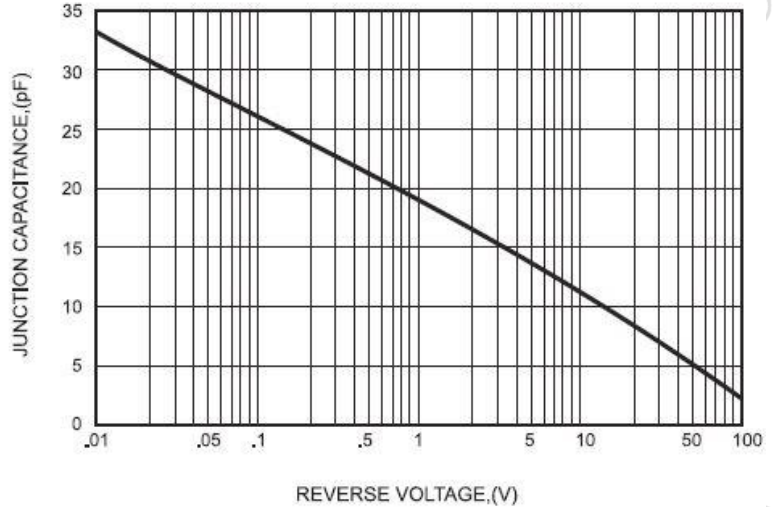
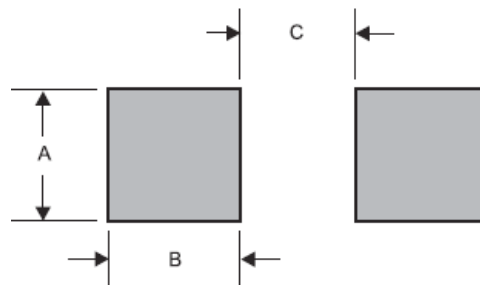


FIG.5-TYPICAL JUNCTION CAPACITANCE



LAYOUT RECOMMENDATION



PACKAGE	A	B	C
SMA-S	0.063 (1.60)	0.059 (1.50)	0.110 (2.80)