

M1 THRU M7

1.0AMP. SURFACE MOUNT RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed: 260° C/10 seconds at terminals.
- . For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

. Case: Molded plastic

. Epoxy: UL94V-0 rate flame retardant

. Lead: MIL-STD- 202E, Method 208 guaranteed

. Polarity: Color band denotes cathode end

. Packaging: 12mm tape per EIA STD RS-481

. Mounting position: Any

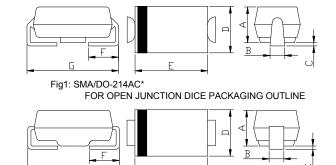


Fig2: SMA/DO-214AC
FOR GLASS PASSIVATED DICE PACKAGING OUTLINE

NO	Fig1 (mm)	Fig2 (mm)
A	1.9~2.4	1.98~2.3
В	1.2~1.8	1.35~1.6
С	0.23MAX	0.2MAX
D	2.4~2.9	2.4~2.9
Е	3.8~4.6	3.8~4.6
F	0.8~1.8	0.8~1.8
G	4.8~5.8	4.8~5.8

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

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For capacitive load, derate current by 20%

Type Number	SYM BOL	M1	M2	М3	M4	M5	M6	M7	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _A =55°C	$I_{\mathrm{F(AV)}}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	30.0							A
Maximum Forward Voltage at 1.0A DC	V_{F}	1.0							V
Maximum Forward Voltage at 3.0A DC	V_{F}	1.3							
Maximum DC Reverse Current @T _A =25°C	7	5.0							μА
at rated DC blocking voltage @T _A =100°C	$I_{ m R}$	100.0							
Typical Junction Capacitance (Note1)	$C_{ m J}$	15							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	75							
Storage Temperature	$T_{ m STG}$	-55 to +150							°C
Operation Junction Temperature	$T_{ m J}$	-55 to +150							°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Measured on P.C.Board with 0.2×0.2"(5.0×5.0mm)Copper Pad Areas.

